City of Belmont

Overflow Emergency Response Plan



Effective Date:	
Revised Date:	
Approved by:	
Signature:	
Date:	

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(ref. SWRCB Order No. 2006-0003-DWQ Element VI)

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Sanitary Sewer Overflow Emergency Response Plan

(ref. SWRCB Order No. 2006-0003-DWQ Element VI)

1. Purpose

The purpose of the City of Belmont's Overflow Emergency Response Plan (OERP) is to support an orderly and effective response to Sanitary Sewer Overflows (SSOs). The OERP provides guidelines for City personnel to follow in responding to, cleaning up, and reporting SSOs that may occur within the City's service area. This OERP satisfies the SWRCB Statewide General Waste Discharge Requirements (GWDR), which require wastewater collection agencies to have an Overflow Emergency Response Plan.

2. Policy

The City's employees are required to report all wastewater overflows resulting from the City-owned/maintained sanitary sewer system found and to take the appropriate action to secure the wastewater overflow area, properly report to the appropriate regulatory agencies, relieve the cause of the overflow, and ensure that the affected area is cleaned as soon as possible to minimize health hazards to the public and protect the environment. The City's goal is to respond to sewer system overflows as soon as possible following notification. The City will follow reporting procedures in regards to sewer spills as set forth by the San Francisco Regional Water Quality Control Board (*SFRWQCB*) and the California State Water Resources Control Board (*SWRCB*).

3. Definitions As Used In This OERP

CALIFORNIA INTEGRATED WATER QUALITY SYSTEM (CIWQS): Refers to the State Water Resources Control Board online electronic reporting system that is used to report SSOs, certify completion of the SSMP, and provide information on the sanitary sewer system.

FROG – Fats, Roots, Oils, and Grease: FOG refers to fats, oils, and grease typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system. Tree root invasion (R) presents an additional problem. If a mat of root hair forms in the sewer line it slows the flow of wastewater and exacerbates the rate of accumulation of FOG materials.

LEGALLY RESPONSIBLE OFFICIAL (LRO): Refers to an individual who has the authority to certify reports and other actions that are submitted through CIWQS.

MAINLINE SEWER: Refers to City wastewater collection system piping that is not a private lateral connection to a user.

MAINTENANCE HOLE OR MANHOLE: Refers to an engineered structure that is intended to provide access to a sanitary sewer for maintenance and inspection.

NOTIFICATION OF AN SSO: Refers to the time at which the City becomes aware of an SSO event through observation or notification by the public or other source.

NUISANCE - California Water Code section 13050, subdivision (m), defines nuisance as anything that meets all of the following requirements:

a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.

- b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c. Occurs during, or as a result of, the treatment or disposal of wastes.

PREVENTATIVE MAINTENANCE: Refers to maintenance activities intended to prevent failures of the wastewater collection system facilities (e.g. cleaning, CCTV, inspection).

PRIVATE LATERAL SEWAGE DISCHARGES – Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

SANITARY SEWER BACKUP (BACKUP) – When blockages or flow conditions cause wastewater to backup into buildings and on private property.

SANITARY SEWER OVERFLOW (SSO) - Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:

- (i) Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
- (ii) Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
- (iii) Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

SSOs that include multiple appearance points resulting from a single cause will be considered one SSO for documentation and reporting purposes in CIWQS.

<u>NOTE</u>: Wastewater backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned are not SSOs.

SSO Categories:

- <u>Category 1</u>: Discharge of untreated or partially treated wastewater of any volume resulting from a sanitary sewer system failure or flow condition that either:
 - Reaches surface water and/or drainage channel tributary to a surface water; or
 - Reached a Municipal Separate Storm Sewer System (MS4) and was not fully captured and returned to the sanitary sewer system or otherwise captured and disposed of properly.
- <u>Category 2</u>: Discharge of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a sanitary sewer system failure or flow condition that either:
 - Does not reach surface water, a drainage channel, or an MS4, or
 - The entire SSO discharged to the storm drain system was fully recovered and disposed of properly.
- <u>Category 3</u>: All other discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure or flow condition.

SANITARY SEWER SYSTEM: Any publicly-owned system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant headworks used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities (such as vaults, temporary

piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, and discharges into these temporary storage facilities are not considered to be SSOs.

SENSITIVE AREA: Refers to areas where an SSO could result in a fish kill or pose an imminent or substantial danger to human health (e.g. parks, aquatic habitats, etc.)

SEWER SERVICE LATERAL: Refers to the piping that conveys sewage from the building to the City's wastewater collection system.

UNTREATED OR PARTIALLY TREATED WASTEWATER: Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.

WATERS OF THE STATE: Waters of the State (or waters of the United States) means any surface water, including saline waters, within the boundaries of California. In case of a sewage spill, storm drains are considered to be waters of the State unless the sewage is completely contained and returned to the wastewater collection system and that portion of the storm drain is cleaned.

4. State Regulatory Requirements for Element 6, Overflow Emergency Response Plan

GWDR Requirement

The collection system agency shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure appropriate response to all overflows;
- (c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, regional water boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board Waste Discharge Requirements or National Pollutant Discharge Elimination System (NPDES) permit requirements. The Sewer System Management Plan should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain untreated wastewater and prevent discharge of untreated wastewater to Waters of the United States and minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

The Sewer System Management Plan and critical supporting documents are available to the public at http://www.belmont.gov.

5. Goals

The City's goals with respect to responding to SSOs are:

- Work safely;
- Respond quickly to minimize the volume of the SSO;

- Eliminate the cause of the SSO;
- Prevent sewage system overflows or leaks from entering the storm drain system or receiving waters to the maximum extent practicable;
- Contain the spilled wastewater to the extent feasible;
- Minimize public contact with the spilled wastewater;
- Mitigate the impact of the SSO;
- · Meet the regulatory reporting requirements;
- Evaluate the causes of failure related to certain SSOs; and
- Revise response procedures resulting from the debrief and failure analysis of certain SSOs.

6. SSO Detection and Notification

ref. SWRCB Order No. 2006-0003-DWQ VI(a)

The processes that are employed to notify the City of the occurrence of an SSO include: observation by the public, receipt of an alarm, or observation by City staff during the normal course of their work.

The City operates wastewater pump stations. In the event of any pump failure, the high level sensor activates the SCADA alarm system and the City is contacted. To prevent overflow, wastewater from the wet well can either be pumped into a vacuum truck for disposal to a nearby sanitary sewer manhole, or bypassed around the station into the sanitary sewer system. Each pump station has an emergency response plan that can be followed in the event of a pump failure.

6.1 PUBLIC OBSERVATION

Public observation is the most common way that the City is notified of blockages and spills. Contact numbers and information for reporting sewer spills and backups are in the phone book and on the City's website: http://www.belmont.gov. Customers can report sewer problems by telephone at (650) 595-7425 during business hours or (650) 595-7400 (Police Dispatch) after hours.

Normal Work Hours

When a report of a sewer spill or backup is made during normal work hours, the office staff takes the call and creates a Hansen Service Request and notifies an available Field Crew. If office staff is not available to take the call, a voice message instructs the caller to call the sewer truck directly at (650) 222-4925.

After Hours

After hours callers will receive a voice message instructing them to call Police Dispatch at (650) 595-7400. Police Dispatch will notify the On Call Employee.

When calls are received, either during normal work hours or after hours, the individual receiving the call will collect the following information:

- Time and date of call
- Specific location of potential problem
- Nature of call
- In case of SSO, estimated start time of overflow
- Caller's name and telephone number
- Caller's observation (e.g., odor, duration, location on property, known impacts, indication if surface water impacted, appearance at cleanout or manhole)
- Other relevant information

The following is an overview of receiving a sewage overflow or backup report:

Receive **Business Hours** notification of **Non-Business Hours** (650) 595-7425 Overflow/ (650) 595-7400 Backup Police Dispatch Office staff gathers information from the caller Dispatch contacts the On Call Employee. and creates a Hanson Service Request. On Call Employee 1. Contact customer reporting the problem. Forwards request to: 2. Gather caller's name, address of the Available Field Crew problem and call back number. Is the overflow/ NO backup in the service area? YES **Provide Customer with** the contact info for the responsible Agency. Is the Outside **Complete the Sanitary** spill inside a 2. Then notify the **Sewer Overflow Response** building or responsible Agency **Packet** outside? Inside

Figure 6.1 Overview of Receiving a Sewage Overflow or Backup Report Procedure

WHAT TO TELL THE CUSTOMER (See Field Guide for tips)

- · Clearly communicate who will respond, estimated time they will arrive and what area(s) will need to be accessed.
- Clearly communicate that a blockage in the sewer main line will be promptly cleared, but that the City is not
 allowed to work on a blockage in the property owner's/resident's service lateral line. Use general terms
 that the caller can understand, and give the caller your name for future reference.
- · Show concern and empathy for the property owner/resident, but do not admit or deny liability.
- Instruct the caller to turn off any appliances that use water and to shut off any faucets inside the home.
- Instruct the caller to keep all family members and pets away from the affected area.
- Instruct the caller to place towels, rags, blankets, etc. between areas that have been affected and areas that have not been affected.
- Instruct the caller to not remove any contaminated items let the professionals do this.
- Instruct the caller to turn off their HVAC system.
- Instruct the caller to move any **uncontaminated** property away from impacted areas.

Complete the Sanitary Sewer Overflow Response Packet

6.2 CITY STAFF OBSERVATION

City staff conducts periodic inspections of its sewer system facilities as part of their routine activities. Any problems noted with the sewer system facilities are reported to appropriate City staff that, in turn, responds to emergency situations. Work orders are issued to correct non-emergency conditions.

6.3 CONTRACTOR OBSERVATION

The following procedures are to be followed in the event that a contractor/plumber causes or witnesses a Sanitary Sewer Overflow. If the contractor/plumber causes or witnesses an SSO they should:

- 1. Immediately notify the City
- 2. Protect storm drains
- 3. Protect the public
- 4. Provide Information to the City Field Crew such as start time, appearance point, suspected cause, weather conditions, etc.
- 5. Direct ALL media and public relations requests to the Public Works Director who will provide the media with all relevant information.

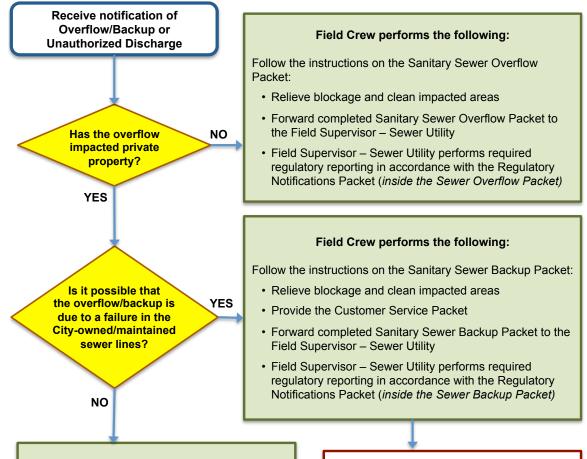
7. SSO Response Procedures

ref. SWRCB Order No. 2006-0003-DWQ Element 6(b)

7.1 Sewer Overflow/Backup Response Summary

The City will respond to SSOs as soon as feasible following notification of an overflow/backup or unauthorized discharge. The following (Figure 7.1) is an overview of the response activities.

Figure 7.1 Overview of SSO/Backup Response



Field Crew performs the following:

Follow the instructions on the Sanitary Sewer Backup Packet:

If customer is not home:

 Complete Door Hanger and leave on customer's door

If customer is home:

- Explain to customer that the blockage is in their lateral, and that as a courtesy the City will attempt to clear blockages in private laterals in some cases up to twice per year. Refer to the Sewer Lateral Release Form for details.
- Otherwise recommend to customer they hire a plumber to clear their line.
- Give customer the Sewer Spill Reference Guide pamphlet.

Management Analyst performs the following:

 Review incident reports, claim form and other incident information and forward, as appropriate, to:

> Rodger Hayton George Hills Company, Inc. 4010 Moorpark Suite 106 San Jose, CA 95117 (408) 260-2030 Rodger.Hayton@georgehills.com

Communicate with claimant, as appropriate, and George Hills Company, Inc. to adjust and administer the claim to closure

7.2 First Responder Priorities

The first responder's priorities are:

- To follow safe work practices.
- To respond promptly with the appropriate and necessary equipment.
- To contain the spill wherever feasible.
- To restore the flow as soon as practicable.
- To minimize public access to and/or contact with the spilled sewage.
- To promptly notify the Field Supervisor Sewer Utility in event of major SSO.
- To return the spilled sewage to the sewer system.
- To restore the area to its original condition (or as close as possible).

7.3 Safety

The first responder is responsible for following safety procedures at all times. Special safety precautions must be observed when performing sewer work. There may be times when City personnel responding to a sewer system event are not familiar with potential safety hazards peculiar to sewer work. In such cases it is appropriate to take the time to discuss safety issues, consider the order of work, and check safety equipment before starting the job.

7.4 Initial Response

The first responder must respond to the reporting party/problem site and visually check for potential sewer stoppages or overflows.

The first responder will:

- Note arrival time at the site of the overflow/backup.
- Verify the existence of a sewer system spill or backup.
- Determine if the overflow or blockage is from a City-owned/maintained or private sewer.
- Identify and assess the affected area and extent of spill.
- Contact caller if time permits.
- If the spill is large or in a sensitive area, document conditions upon arrival with photographs. Decide whether to proceed with clearing the blockage to restore the flow or to initiate containment measures. The guidance for this decision is:
 - o Small spills (i.e., spills that are easily contained) proceed with clearing the blockage.
 - Moderate or large spill where containment is anticipated to be simple proceed with the containment measures.
 - Moderate or large spills where containment is anticipated to be difficult proceed with clearing the blockage; however, whenever deemed necessary, call for additional assistance and implement containment measures.
- Take steps to contain the SSO. For detailed procedures refer to Appendix B: Sanitary Sewer Backup Procedures, and Appendix C: Sanitary Sewer Overflow Packet.

7.5 Initiate Spill Containment Measures

The first responder will attempt to contain as much of the spilled sewage as possible using the following steps:

- Determine the immediate destination of the overflowing sewage.
- Plug storm drains using air plugs, sandbags, and/or plastic mats to contain the spill, whenever appropriate. If spilled sewage has made contact with the storm drainage system, attempt to contain the spilled sewage by plugging downstream storm drainage facilities.

- Contain/direct the spilled sewage using dike/dam or sandbags.
- Pump around the blockage/pipe failure.

For detailed procedures refer to Appendix C: Sanitary Sewer Overflow Packet.

7.6 Restore Flow

Using the appropriate cleaning equipment, set up downstream of the blockage and hydro-clean upstream from a clear manhole. Attempt to remove the blockage from the system and observe the flows to ensure that the blockage does not reoccur downstream. If the blockage cannot be cleared within a reasonable time from arrival, or sewer requires construction repairs to restore flow, then initiate containment and/or bypass pumping. If other assistance is required, immediately contact Public Works Maintenance Supervisor. For detailed procedures refer to Appendix C: Sanitary Sewer Overflow Packet.

7.7 Equipment

This section provides a list of specialized equipment that may be used to support this Overflow Emergency Response Plan.

- Closed Circuit Television (CCTV) Inspection Unit A CCTV Inspection Unit is required to determine the root cause for all SSOs from gravity sewers.
- Camera -- A digital or disposable camera is required to record the conditions upon arrival, during clean up, and upon departure.
- Emergency Response Trucks -- A utility body pickup truck, or open bed is required to store and transport the equipment needed to effectively respond to sewer emergencies. The equipment and tools will include containment and clean up materials.
- Portable Generators, Portable Pumps, Piping, and Hoses Equipment used to bypass pump, divert, or power equipment to mitigate an SSO.
- Combination Sewer Cleaning Trucks -- Combination high velocity sewer cleaning trucks with vacuum tanks are required to clear blockages in gravity sewers, vacuum spilled sewage, and wash down the impacted area following the SSO event.
- Air plugs, sandbags and plastic mats
- Portable Lights

Standard operating procedures for equipment that may be necessary in the event of a sanitary sewer overflow or backup can be found in Corporation Yard sewer vehicles.

8. Recovery and Cleanup

ref. SWRCB Order No. 2006-0003-DWQ Element 6(e)

The recovery and cleanup phase begins immediately after the flow has been restored and the spilled sewage has been contained to the extent possible. The SSO recovery and cleanup procedures are:

8.1 Estimate the Volume of Spilled Sewage

Use the methods outlined in the Sanitary Sewer Backup Packet (Appendix B), Sanitary Sewer Overflow Packet (Appendix C), and/or the Field Guide to estimate the volume of the spilled sewage. Wherever

possible, document the estimate using photos and/or video of the SSO site before and during the recovery operation.

8.2 Recovery of Spilled Sewage

Vacuum up and/or pump the spilled sewage and rinse water, and discharge it back into the sanitary sewer system.

8.3 Clean-up and Disinfection

Clean up and disinfection procedures will be implemented to reduce the potential for human health issues and adverse environmental impacts that are associated with an SSO event. The procedures described are for dry weather conditions and will be modified as required for wet weather conditions. Where cleanup is beyond the capabilities of the Field Crew, a cleanup contractor will be used.

Private Property

City crews are responsible for the cleanup when the property damage is minor in nature and is outside of private building dwellings, such as in front, side and backyards, easements, etc. In all other cases, affected property owners can call a water damage restoration contractor to complete the cleanup and restoration. If the overflow into property is the definite cause of City system failure, the property owner can call out a water damage restoration contractor to complete the cleanup and restoration. In both cases, property owners may obtain a City claim form from the Management Analyst.

Hard Surface Areas

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water and/or deozyme or similar non-toxic biodegradable surface disinfectant until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Take reasonable steps to contain and vacuum up the wastewater. Allow area to dry. Repeat the process if additional cleaning is required.

Landscaped and Unimproved Natural Vegetation

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Either contain or vacuum up the wash water so that none is released. Allow the area to dry. Repeat the process if additional cleaning is required.

Natural Waterways

The Department of Fish and Wildlife will be notified by CalOES for SSOs greater than or equal to 1,000 gallons.

Wet Weather Modifications

Omit flushing and sampling during heavy storm events (i.e., sheet of rainwater across paved surfaces) with heavy runoff where flushing is not required and sampling would not provide meaningful results.

8.4 Public Notification

In the event a sanitary sewer spill creates a danger to public health, staff will post warning signs in the area and close off the immediate area to the public and all non-emergency vehicular traffic. Staff shall provide crowd and traffic control and may request Police assistance with this task.

Additionally, the supervisor on site will use his best judgment regarding supplemental sign placement in order to protect the public and local environment. Staff shall use City storm drain maps to determine appropriate downstream locations to begin cleanup activities.

Creeks, streams and beaches that have been contaminated as a result of an SSO will be posted at visible access locations until the risk of contamination has subsided to acceptable background bacteria levels. The area and warning signs, once posted, will be checked every day to ensure that they are still in place. Photographs of sign placement will be taken.

In the event the overflow occurs at night, the location will be inspected first thing the following day. The field crew will look for any signs of sewage solids and sewage-related material that may warrant additional cleanup activities.

When contact with the local media is deemed necessary, the Public Works Director or their designee will provide the media with all relevant information.

9. Water Quality

ref. SWRCB Order No. 2006-0003-DWQ Element 6(f)

9.1 Waters of the State

Waters of the State (or waters of the United States) means any surface water, including saline waters, within the boundaries of California. In case of a sewage spill, storm drains are considered to be waters of the State unless the sewage is completely contained and returned to the wastewater collection system and that portion of the storm drain is cleaned.

9.2 Water Quality Sampling and Testing

Water quality sampling and testing is required for Category 1 SSOs of 50,000 gallons or greater to determine the extent and impact of the SSO. The water quality sampling procedures must be implemented within 48 hours and include the following:

- The first responders will collect samples as soon as possible after the discovery and mitigation of the SSO event.
- The water quality samples will be collected from upstream of the spill, from the spill area, and downstream of the spill in flowing water (e.g. creeks). The water quality samples will be collected near the point of entry of the spilled sewage.
- The samples shall then be brought to the Silicon Valley Clean Water Agency for analysis.

9.3 Water Quality Monitoring Plan

The City Water Quality Monitoring Plan will be implemented immediately upon discovery of any Category 1 SSO of 50,000 gallons or more in order to assess impacts from SSOs to surface waters. The SSO Water Quality Monitoring Program will:

- 1. Contain protocols for water quality monitoring.
- 2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.)
- 3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
- 4. Require monitoring instruments and devices used to implement the SSO Water Quality

- Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
- 5. Within 48 hours of the City becoming aware of the SSO, require water quality sampling for ammonia and total and fecal coliform.
- 6. Observe proper chain of custody procedures.

9.4 SSO Technical Report

The City will submit an SSO Technical Report to the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. The Public Works Services Manager or the Assistant Public Works Director will supervise the preparation of this report and will certify this report. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

Causes and Circumstances of the SSO:

- Complete and detailed explanation of how and when the SSO was discovered.
- Diagram showing the SSO failure point, appearance point(s), and final destination(s).
- Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.
- Detailed description of the cause(s) of the SSO.
- Copies of original field crew records used to document the SSO.
- Historical maintenance records for the failure location.

City's Response to SSO:

- Chronological narrative description of all actions taken by the City to terminate the spill.
- Explanation of how the SSMP Overflow Emergency Response Plan was implemented to respond to and mitigate the SSO.
- Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

Water Quality Monitoring:

- Description of all water quality sampling activities conducted including analytical results and evaluation of the results.
- Detailed location map illustrating all water quality sampling points.

10. Sewer Backup Into/Onto Private Property Claims Handling Procedure

It is the procedure of the City that a claims form shall be offered to anyone wishing to file a claim. The following procedures will be observed for all sewer overflows/backups into/onto private property:

- Field Crew will offer a City claim form whenever it is possible that the sanitary sewer backup may have
 resulted from an apparent blockage in the City-owned sewer lines or whenever a City customer
 requests a claim form. The claim may later be rejected if subsequent investigations into the cause of
 the loss indicate the City was not at fault.
- It is the responsibility of the Field Crew to gather information regarding the incident and notify the Field Supervisor Sewer Utility or his/her designee.

• It is the responsibility of the Management Analyst or his/her designee to review all claims and to oversee the adjustment and administration of the claim to closure.

11. Notification, Reporting, Monitoring and Recordkeeping Requirements ref. SWRCB Order No. 2006-0003-DWQ Element 6(c)

In accordance with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS GWDRs), the City of Belmont maintains records for each sanitary sewer overflow. Records include:

- Documentation of response steps and/or remedial actions
- Photographic evidence to document the extent of the SSO, field crew response operations, and site conditions after field crew SSO response operations have been completed. The date, time, location, and direction of photographs taken will be documented.
- Documentation of how any estimations of the volume of discharged and/or recovered volumes were calculated including all assumptions made.

Regulator required notifications are outlined in Section 11.1 on the following page.

11.1 Regulator Required Notifications

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION	Within two hours of becoming aware of any Category 1 SSO greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water, the City will notify the California Office of Emergency Services (CalOES) and obtain a notification control number.	Call Cal OES at: (800) 852-7550
REPORTING	 Category 1 SSO: The City will submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. Category 2 SSO: The City will submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date. Category 3 SSO: The City will submit certified report within 30 calendar days of the end of month in which SSO the occurred. SSO Technical Report: The City will submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. "No Spill" Certification: The City will certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. Collection System Questionnaire: The City will update and certify every 12 months 	Enter data into the CIWQS Online SSO Database ¹ (http://ciwqs.waterboards.ca.gov/) certified by the Legally Responsible Official(s) ² . All information required by CIWQS will be captured in the Sanitary Sewer Overflow Report. Certified SSO reports may be updated by amending the report or adding an attachment to the SSO report within 120 calendar days after the SSO end date. After 120 days, the State SSO Program Manager must be contacted to request to amend an SSO report along with a justification for why the additional information was not available prior to the end of the 120 days.
WATER QUALITY MONITORING	The City will conduct water quality sampling within 48 hours after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.	Water quality results will be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING	 The City will maintain the following records: SSO event records. Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. Collection system telemetry records if relied upon to document and/or estimate SSO Volume. 	Self-maintained records shall be available during inspections or upon request.

1

¹ In the event that the CIWQS online SSO database is not available, the Field Supervisor – Sewer Utility will notify SWRCB by phone and will fax or e-mail all required information to the RWQCB office at (510) 622-2460 in accordance with the time schedules identified above. In such an event, the City will submit the appropriate reports using the CIWQS online SSO database when the database becomes available. A copy of all documents that certify the submittal in fulfillment of this section shall be retained in the SSO file.

The City always has at least one LRO. Any change in the LRO(s) including deactivation or a change to contact information, will be submitted to the SWRCB within 30 days of the change by calling (866) 792-4977 or emailing help@ciwqs.waterboards.ca.gov.

For reporting purposes, if one SSO event of whatever category results in multiple appearance points in a sewer system, a single SSO report is required in CIWQS that includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that cause the SSO, and descriptions of the locations of all other discharge points associated with the single SSO event.

11.2 Complaint Records

The City maintains records of all complaints received whether or not they result in sanitary sewer overflows. These complaint records include:

- Date, time, and method of notification
- Date and time the complainant or informant first noticed the SSO or occurrence related to the call
- Narrative description describing the complaint
- A statement from the complainant or informant, if they know, of whether or not the potential SSO may have reached waters of the state
- Name, address, and contact telephone number of the complainant or informant reporting the potential SSO (if not reported anonymously)
- Follow-up return contact information for each complaint received (if not reported anonymously)
- Final resolution of the complaint with the original complainant
- Work service request information used to document all feasible and remedial actions taken

All sewer service requests are entered into the Hansen Computerized Maintenance Management System (CMMS). If the service request requires work on the sewer or other City infrastructure, a work order is created. Once work is complete, the Work Order and the Service Request are closed. If the work does require City action, the Service Request is closed in Hansen.

All sewer service requests are logged on the Sewer/SSO Report by the responding field crew. If the service request turns out to not be sewer related, this information is captured on this form and the true nature of the service request identified.

The Field Supervisor – Sewer Utility is responsible for maintaining completed Sewer SSO Reports for five years.

12. Post SSO Event Debriefing

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

Every SSO event is an opportunity to evaluate the City response and reporting procedures. Each overflow event is unique, with its own elements and challenges including volume, cause, location, terrain, climate, and other parameters.

As soon as possible after Category 1 and Category 2 SSO events all of the participants, from the person who received the call to the last person to leave the site, will meet to review the procedures used and to discuss what worked and where improvements could be made in preventing or responding to and mitigating future SSO events. The results of the debriefing will be documented and tracked to ensure the action items are completed as scheduled.

13. Failure Analysis Investigation

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

The objective of the failure analysis investigation is to determine the "root cause" of the SSO and to identify corrective action(s) needed that will reduce or eliminate future potential for the SSO to recur or for other SSOs to occur.

The investigation will include reviewing all relevant data to determine appropriate corrective action(s) for the line segment. The investigation will include:

- Reviewing and completing the Sanitary Sewer Overflow Report (in Appendix B and Appendix C) and any other documents related to the incident
- Reviewing the incident timeline and other documentation regarding the incident
- Reviewing communications with the reporting party and witness
- Reviewing volume estimate, volume recovered estimate, volume estimation assumptions and associated drawings
- Reviewing available photographs
- Interviewing staff that responded to the spill
- Reviewing past maintenance records
- Reviewing past CCTV records.
- Conducting a CCTV inspection to determine the condition of all line segments immediately following the SSO and reviewing the video and logs,
- Reviewing any Fats, Oils, Roots and Grease (FROG) related information or results
- Post SSO debrief records
- Interviews with the public at the SSO location

The product of the failure analysis investigation will be the determination of the root cause and the identification and scheduling of the corrective actions. The Collection System Failure Analysis Form (in Appendix B and Appendix C) will be used to document the investigation.

14. SSO Response Training

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

This section provides information on the training that is required to support this Overflow Emergency Response Plan.

14.1 Initial and Annual Refresher Training

All City personnel who may have a role in responding to, reporting, and/or mitigating a sewer system overflow will receive training on the contents of this OERP. All new employees will receive training before they are placed in a position where they may have to respond. Current employees will receive annual refresher training on this plan and the procedures to be followed. The City will document all training.

Affected employees will receive annual training on the following topics by knowledgeable trainers:

- The City's Overflow Emergency Response Plan and Sanitary Sewer Management Plan
- Sanitary Sewer Overflow Volume Estimation Techniques
- Researching and documenting Sanitary Sewer Overflow Start Times
- Impacted Surface Waters: Response Procedures
- State Water Resources Control Board Employee Knowledge Expectations
- Employee Core Competency Evaluations on Sanitary Sewer Operations
- Water Quality Sampling Plan

The City will verify that annual safety training requirements are current for each employee, and that employees are competent in the performance of all core competencies. This will be verified through electronic testing, interviews and observations. The City will address, through additional training/instruction, any identified gaps in required core competencies.

Through SWRCB Employee Knowledge Expectations training the employee will be able to answer the following:

- 1. Please briefly describe your name and job title.
- 2. Please describe for us approximately when you started in this field and how long you have worked for your agency.
- 3. Please expand on your current position duties and role in responding in the field to any SSO complaints.
- 4. Please describe your SOPs used to respond/mitigate SSOs when they occur.
- 5. Describe any training your agency provides or sends you to for conducting spill volume estimates.
- 6. We are interested in learning more about how your historical SSO response activities have worked in the field. We understand from discussions with management earlier that you use the OERP from the SSMP. Please elaborate on how you implement and utilize the procedures in the plan.
- 7. Historically, before any recent changes, can you please walk us through how you would typically receive and respond to any SSO complaints in the field?
- 8. Can you tell us who is responsible for estimating SSO volumes discharged? If it is you, please describe how you go about estimating the SSO volume that you record on the work order/service request forms?
- 9. What other information do you collect or record other than what is written on the work order form?
- 10. Describe if and when you ever talk with people that call in SSOs (either onsite or via telephone) to further check out when the SSO might have occurred based on what they or others know? If you do this, can you tell us where this information is recorded?
- 11. We understand you may be instructed to take pictures of some sewer spills/backups into structures. Other than these SSOs, when else would you typically take any pictures of an SSO?
- 12. Please walk us through anything else you'd like to add to help us better understand how your field crews respond and mitigate SSO complaints.

14.2 SSO Response Drills

Periodic training drills or field exercises will be held to ensure that employees are up to date on these procedures, equipment is in working order, and the required materials are readily available. The training drills will cover scenarios typically observed during sewer related emergencies (e.g. mainline blockage, mainline failure, and lateral blockage). The results and the observations during the drills will be recorded and action items will be tracked to ensure completion.

14.3 SSO Training Record Keeping

Records will be kept of all training that is provided in support of this plan. The records for all scheduled training courses and for each overflow emergency response training event and will include date, time, place, content, name of trainer(s), and names and titles of attendees.

14.4 Contractors Working On City Sewer Facilities

All construction contractors working on City sewer facilities will be required to develop a project-specific OERP, will provide project personnel with training regarding the content of the contractor's OERP and their role in the event of an SSO, and to follow that OERP in the event that they cause or observe an SSO. Emergency response procedures shall be discussed at project pre-construction meetings, regular project meetings and after any contractor involved incidents.

All service contractors will be provided, and required to observe contractor procedures. See Appendix E: Contractor Orientation.

15. Authority

- Health & Safety Code Sections 5410-5416
- CA Water Code Section 13271
- Fish & Wildlife Code Sections 5650-5656
- State Water Resources Control Board Order No. 2006-0003-DWQ
- State Water Resources Control Board Order 2013-009-DWQ effective September 9, 2013

16. References

- Sanitary Sewer Overflow and Backup Response Field Guide, 2013, DKF Solutions Group, LLC
- Appendix A: Regulatory Notifications Packet
- Appendix B: Sanitary Sewer Backup Packet
- Appendix C: Sanitary Sewer Overflow Packet
- Appendix D: Field Sampling Kit
- Appendix E: Contractor Orientation

Appendix A REGULATORY NOTIFICATIONS PACKET

Regulatory Notifications Packet

Instructions:

- 1. Receive call from on-site sewer crew reporting a Sanitary Sewer Overflow.
- 2. Open this packet.
- 3. Refer to the Regulatory Reporting Guide (A-1) for instructions.
- 4. Use the SSO Reporting Checklist for the appropriate category of spill (A-2a or A-2b) to document that all notifications are made according to the reporting schedule.

Contents:

<u>Form</u>	Page Number
Regulatory Reporting Guide	A-1
Reporting Checklist: Category 1	2a
Reporting Checklist: Categories 2 and 3	2b
RWQCB Notification Fax	-3

Regulatory Notifications Packet Regulatory Reporting Guide

Reporting Instructions				
Deadline	See reverse side for contact information and definitions of the categories of spills of untreated or partially treated wastewater from publically owned sanitary sewer system			Spill from
	Category 1	egory 1 Category 2 Category 3		Private Lateral
2 hours after awareness of SSO	If SSO is greater than or equal to 1,000 gallons, call CalOES at (800) 852-7550.	-	-	-
As soon as possible	 If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City contact George Hills Company, Inc. and the Management Analyst. See Side B for contact information. For spills impacting waters where public contact could occur, contact the San Mateo County Health Department for signage instructions. See Side B for contact information. 			-
48 Hours after awareness of SSO	If 50,000 gal or more were not recovered, begin water quality sampling and initiate impact assessment			-
3 Days after awareness of SSO	Submit Draft Spill Report in the CIWQS* database	Submit Draft Spill Report in the CIWQS* database	-	-
15 Days after response conclusion	Certify Spill Report in CIWQS*. Update as needed until 120 days after SSO end time	Certify Spill Report in the CIWQS* database. Update as needed until 120 days after SSO end time	-	-
30 Days after end of calendar month in which SSO occurred	-	-	Certify Spill Report in the CIWQS* database. Update as needed until 120 days after SSO end time	-
45 days after SSO end time	If 50,000 gal or more were not recovered, submit SSO Technical Report using CIWQS*	-	-	-

^{*} In the event that the CIWQS online SSO database is not available, do the following until the CIWQS online SSO database becomes available: (See contact information on Side B)

Note: For reporting purposes, if one SSO event results in multiple appearance points, complete one SSO report in the CIWQS SSO Online Database, and report the location of the SSO failure point, blockage or location of the flow condition that caused the SSO, in the CIWQS SSO Online Database, including all the discharge points associated with the SSO event.

Make required notifications to the San Francisco Regional Water Quality Control Board (SFRWQCB office) using A-3. and

^{2.} Notify the State Water Resources Control Board (SWRCB) by phone or email

Regulatory Notifications Packet Regulatory Reporting Guide

Contact Information

Contact	Telephone/Fax/Email		
CalOES	(800) 852-7550		
Rodger Hayton George Hills Company, Inc.	(408) 260-2030		
Nawel Voelker, Management Analyst	(650) 595-7433 nvoelker@belmont.gov		
San Mateo County Environmental Health	(650) 372-6200		
San Francisco Regional Water Quality Control Board (SFRWQCB):	Telephone: (510) 622-2369 Fax: (510) 622-2460		
State Water Resources Control Board (SWRCB):			
Russell Norman, P.E. Victor Lopez, Water Resources Control Engineer	(916) 323-5598 Russell.Norman@waterboards.ca.gov (916) 323-5511 Victor.Lopez@waterboards.ca.gov		

Authorized Personnel

The following are authorized to perform regulatory reporting:

Title	Telephone	X if LRO*
Senior Sewer Lead Maintenance Worker	(650) 222-4296	
Public Works Services Manager	(650) 595-7464	x
Field Supervisor – Sewer Utility	(650) 222-6460	

^{*}Legally Responsible Official (LRO) is authorized to electronically sign and certify SSO reports in CIWQS.

Definitions of Spill Categories

The response crew will complete the SSO Report form in the SSO Packet to document how category was determined.

Category	Definition
Category 1:	Discharge of untreated or partially treated wastewater of any volume resulting from a sanitary sewer system failure or flow condition that either: Reaches surface water and/or drainage channel tributary to a surface water; or Reached a Municipal Separate Storm Sewer System (MS4) and was not fully captured and returned to the sanitary sewer system or otherwise captured and disposed of properly.
Category 2:	Discharge of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a sanitary sewer system failure or flow condition that either: • Does not reach surface water, a drainage channel, or an MS4, or • The entire SSO discharged to the storm drain system was fully recovered and disposed of properly.
Category 3:	All other discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure or flow condition

Regulatory Notifications Packet Category 1 SSO Reporting Checklist

A-2a

Use this Checklist for Category 1 SSOs only

STEP 2: 2-hour Notification If SSO is greater than or equal to 1,000 gallons, notify CalOES within 2 hours of the time the agency was notified of the spill (800) 852-7550: Date Called:	STEP 1:	Receive call from crew.
If SSO is greater than or equal to 1,000 gallons, notify CalOES within 2 hours of the time the agency was notified of the spill (800) 852-7550: Date Called:		
of the spill (800) 852-7550: Date Called: Time called: Time called: CalOES Control number: CalOES Operator Name: STEP 3: As soon as possible If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters.	STEP 2:	2-hour Notification
Time called:		
CalOES Control number: CalOES Operator Name: STEP 3: As soon as possible If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	0	Date Called:
STEP 3: As soon as possible If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	0	Time called: : : DAM DPM
STEP 3: As soon as possible If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	0	CalOES Control number:
If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	0	CalOES Operator Name:
If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a claim for damages may be submitted against the City, notify the following: George Hills Company, Inc. Management Analyst STEP 4: Within 48-Hours after awareness of SSO Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:		
□ Management Analyst □ STEP 4: Within 48-Hours after awareness of SSO □ Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. □ STEP 5: Within 3 Days after awareness of SSO □ Submit a Draft Spill Report using the CIWQS online reporting database. □ STEP 6: Within 15 Days after response conclusion □ Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. □ Within 45 Days after SSO end time □ Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. □ This form completed by: □ STEP 1: Within 45 Days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters.	STEP 3:	If SSO impacts private property that may be due to a failure in the City sewer and/or if the City believes a
 ☐ Only if 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan. STEP 5: Within 3 Days after awareness of SSO ☐ Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion ☐ Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time ☐ Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	_	
STEP 5: Within 3 Days after awareness of SSO Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	STEP 4:	Within 48-Hours after awareness of SSO
□ Submit a Draft Spill Report using the CIWQS online reporting database. STEP 6: Within 15 Days after response conclusion □ Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time □ Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by: □	Only	f 50,000 gallons or more was not recovered, implement Water Quality Monitoring Plan.
 STEP 6: Within 15 Days after response conclusion □ Certify the Spill Report using the CIWQS online reporting database. Updates to the Spill Report may be made for up to 120 days following the conclusion of the SSO Response. STEP 7: Within 45 Days after SSO end time □ Within 45 days after the SSO end time, submit an SSO Technical Report using the CIWQS online reporting database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	STEP 5:	Within 3 Days after awareness of SSO
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database only if 50,000 gallons or more was spilled to surface waters. This form completed by:	STEP 7:	Within 45 Days after SSO end time
Name imp item	This form c	

Name

Regulatory Notifications Packet Category 2 & 3 SSO Reporting Checklist

A-2b

Use this Checklist for Category 2 and 3 SSOs only

STEP 1:	Receive call from crew.			
STEP 2:	As soon as possible If SSO impacts private property that r claim for damages may be submitted			r if the City believes a
	ge Hills Company, Inc. gement Analyst			
STEP 3:	Submit Draft Spill Report (Ca	tegory 2 only)		
	it a Draft Spill Report using the CIWQ ory 2 SSO.	S online reporting data	abase within 3 days after	awareness of
STEP 4:	Certify Spill Report			
_	the Spill Report using the CIWQS or Category 2 SSO: Within 15 days aft Category 3 SSO: Within 30 days aft es to the Spill Report may be made for	er the conclusion of the caler	ne response andar month in which the	
This form co	ompleted by:		Title	

Regulatory Notifications Packet Regional Water Quality Control Board Notification Fax

A-3

NOTE TO City of Belmont Staff: Only use this form in the event that the CIWQS online SSO database is not available

F	San Francisco Regional Water Quality Control Board Fax Number: (510) 622-2460 Telephone: (510) 622-2369				Date: # Pages:				
T F	ax (City Hall):	(650) 595-7425 (650) 593-8394 (650) 637-2991							
Address of SS	O:		City:						
County:			Date/Tir						
			SSO Sto						
/olume of SSO:			Volume	Volume Recovered:					
Final Disposition	on:								
Affected Water									
Samples Colle	cted? □YES	□NO							
Taken to:									
Agencies Not	ified Numbe	<u>er(s)</u>	<u>C</u>	ontact	<u>Time</u>	<u>Date</u>			
CalOES	(800) 8	52-7550 □YES	S □NO						
CIQWS		□YES	S □NO						
OTHER:									

Appendix B SANITARY SEWER BACKUP RESPONSE PACKET

Sanitary Sewer Backup Response Packet **Table of Contents**

<u>Form</u>	<u>Form Number</u>
Instructions and Chain of Custody	packet envelope
Backup Response Flowchart	B-1
Bubbled Toilets Letter	2
Sewer Lateral Release Form	3
First Responder Form	4
Sanitary Sewer Overflow Report	5
Start Time Determination Form	6
Volume Estimation Forms	7a, -7b, -7c
Claims Submittal Checklist	8
Collection System Failure Analysis Form	9
Customer Service Packet Instructions Customer Information Claim Form Sewer Spill Reference Guide	CS-1
Regulatory Notifications Packet Instructions	Å-1 2a 2b
Door Hanger	

In the event of a **Sewer Backup** into a home/business **READ THIS FIRST**



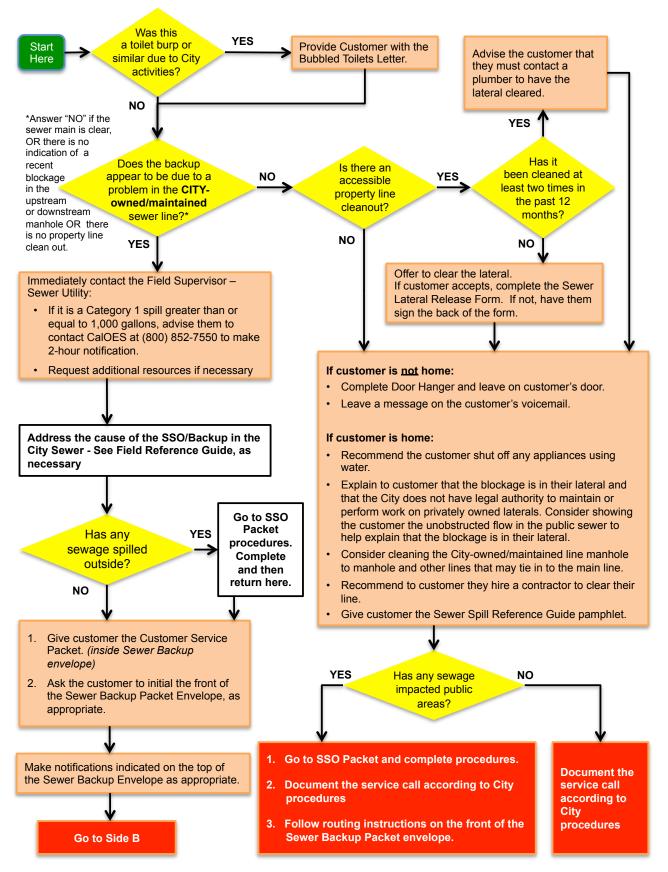
☐ If this is a Category 1 SSO greater than or equal to 1,000 gallons, IMMEDIATELY contact the Field Supervisor – Sewer Utility at (650) 222-6460 to make the 2-hour notification to CalOES								
☐ If the backup is into/onto private property AND possibly due to a problem in the public sewer, notify Rodger Hayton at George Hills Company, Inc.: (408) 260-2030								
☐ Media requests must be directed to the Public Works Director at (650) 595-7459								
	Don't forget photos!							
Field Crew:								
□ Follow the instructions on the Sewer Backup Response Flowchart (B-1). Note: If multiple dwelling units are affected, use one packet per unit and check here: □	Print Name:							
☐ If indicated on the flowchart, give the customer the Bubbled Toilets Letter and/or the Customer Service Packet and have them initial here: Customer acknowledgement of receipt of Bubbled Toilets Letter: Customer acknowledgement of receipt of Customer Service Packet:	Initial:							
Place completed forms in this envelope, complete the Chain of Custody record (right) and forward this packet to the Field Supervisor – Sewer Utility.	Time:							
Field Supervisor – Sewer Utility:	Print Name:							
Follow the instructions on the bottom of the Sewer Backup Response Flowchart (B-1).								
Complete the Regulatory Notifications Packet.	Initial:							
Complete the Claims Submittal Checklist.	Date:							
Complete the Chain of Custody record (right) and forward this packet to the Management Analyst.	Time:							

Management Analyst:

☐ Refer to the Claims Submittal Checklist.

City of Belmont Overflow Emergency Response Plan: Sanitary Sewer Backup Packet

Sanitary Sewer Backup Response Packet Backup Response Flowchart



Sanitary Sewer Backup Response Packet Backup Response Flowchart

Continue Here From Side A

- 1. Remove the First Responder Form from the Sewer Backup Packet envelope and complete.
- 2. Take photographs of affected and non-affected areas, if allowed by customer. Try to get pictures showing where the damaged areas stopped.
- 3. Immediately contact Rodger Hayton at George Hills Company, Inc. at (408) 260-2030.

Complete the following forms (in the Sewer Backup Envelope):

- Sanitary Sewer Overflow Report
- Start Time Determination Form (Remember, the spill was probably already occurring before it was reported.)
- · Volume Estimation (Use one or more worksheets and/or methods listed in the Field Guide.)

Ask for permission to photograph the backflow prevention device or cleanout and photograph, if allowed.

Clean any overflow outside of the building.

Can you locate a backflow prevention device (BPD) or cleanout on the affected building?

NO

- 1. Document the service call according to City procedures.
- 2. Complete the remaining instructions on the front of the Sewer Backup Packet.
- 3. Follow routing instructions as indicated on the front of the Sewer Backup Packet.

MEDIA AND PUBLIC RELATIONS GUIDELINES:

Exercise caution in contacts with the public or media when you respond to a spill. Any information you provide or statements you make may become pertinent in the event of possible court action, it is important to **AVOID THE FOLLOWING**:

- Giving out the wrong information including providing incorrect facts about a company or other agency
- Making accusations against customers, businesses or other agencies
 Speculating about the situation you are responding to

Be courteous and attempt to provide accurate information to questions within the limits above. In some cases, it may be appropriate to say that we do not have any information, or to delay answering a question and then to say when an answer might be available.

In most cases, refer media requests to the media coordinator indicated on the front of the Sewer Backup Packet envelope.

Sanitary Sewer Backup Response Packet Bubbled Toilets Letter

Dear City of Belmont Customer,

Thank you for informing us that your toilet bubbled while our crews were working in proximity of your property. We apologize for the inconvenience and hope that this letter will answer some of your questions about bubbling toilets.

1. Is this a health risk?

The water that came out of your toilet is potable water from the toilet bowl. Unless your toilet was in use when this occurred, this water is no different than that encountered while cleaning your toilet.

2. What is the City doing in the street?

In order to insure reliable sewer service, the City inspects, cleans, and repairs its sewer system on a continuous basis.

3. How does sewer cleaning cause my toilet to bubble?

Typical industry cleaning equipment uses high-pressure water to clean sewers. The first step is to use the high-pressure water jets to propel the hose and cleaning nozzle upstream as far as 800 feet. During this process, air within the main pipe is displaced and sometimes goes up the private lateral pipe and releases though the toilet. This can also happen during the cleaning phase, when high-pressure water is pulled downstream to the cleaning truck.

4. What causes the air to come from my toilet?

Over the years, City crews have found that the bubbling of toilets have many causes, some of which are:

- · Obstructed vent pipes;
- · Vent pipes that are positioned too far from the toilet;
- Lateral pipes that may be in use as the crew is cleaning (e.g. draining washing machine, draining bathtub, etc.);
- Lateral pipes that may have obstructions that are causing them to hold water (e.g. roots, grease, etc.).

5. What does City staff do, once informed of a bubbling toilet?

Once notified of a bubbling toilet, the crew leader explains to the customer what has happened. The crew leader then makes notes and completes paperwork that puts the address on the City's list. In the future, crews will notice that this address was "bubbled" at one time, and, before commencing the cleaning, they will notify the occupant of the possibility of bubbling toilets. In the event the occupant is not present when the cleaning begins, the crews will attempt to open clean-outs and/or lower water pressure to avoid bubbling.

6. What can I do to prevent my toilet from bubbling?

When a sewer begins to drain slowly, it may be a sign that it needs to be cleaned or repaired. Trees and shrubs may have root structures that are entering the lateral pipe. The homeowner needs to make sure to have a clean-out for accessing the line. It is the homeowner's responsibility to keep the sewer lateral pipe in good working condition.

It is always a good idea to keep the toilet lid down when not in use, and not install carpets in the bathroom unless they can be easily removed and cleaned. For more information please call: the Field Supervisor – Sewer Utility at (650) 222-6460.

Sincerely,

City of Belmont

B-3

Sanitary Sewer Backup Response Packet Sewer Lateral Release Form

Dear Customer:

Signed

Your plumbing fixtures discharge from your home or business to the City's sewer main line through a pipe known as a house connection sewer and sewer lateral. This pipe belongs to the property owner who is responsible for its maintenance and repair.

As a courtesy to property owners, the Belmont Public Works Department will attempt to clear blockages in the lower portion of your private sewer lateral (the section of pipe within the public right-of-way running from your property line to the sewer main line) twice within a twelve-month period, if there is an accessible property line clean out.

As this sewer lateral is private property, we first need to obtain your signed release prior to performing this service. If you give your consent for the City to perform these services, please sign below:

CUSTOMER, please read the following and indicate whether you are requesting City assistance by signing as appropriate below:

REQUEST FOR ASSISTANCE - WAIVER AND RELEASE

I/We, _, owner/occupant of the property located at request assistance from the City of Belmont in clearing blockages in my/our private sewer lateral, if there is an accessible property line cleanout. I acknowledge that property owners in the City of Belmont are responsible to maintain in good repair all portions of the sewer lateral servicing their property including the connection of the lateral to the public sewer main and any back flow prevention devices or cleanouts. I acknowledge that the City is not obligated to provide this assistance, does not warrant the work, and is not assuming a duty to provide on-going or additional assistance related to the sewer lateral by assisting me in this regard. I/we, on behalf of myself/ourselves and my/our successors and assigns, agree to hold the City and its employees harmless, and do hereby irrevocably waive, release, and agree not to bring any action or suit against the City and its employees, in connection with any personal injury, property damage, loss, demand or liability that may occur as a result of the actions, inactions, active negligence or passive negligence of city employees providing this assistance, unless caused by intentional misconduct. Signed Date **DECLINE ASSISTANCE** I decline assistance from the City of Belmont in clearing blockage in the sewer lateral servicing the property located at ______.

Sanitary Sewer Backup Response Packet First Responder Form

B-4 Side A

Fill out this form as completely as possible.

Ask customer if you may enter the home. If so, take photos of all damaged and undamaged areas.

PERSON COMPLETING THIS FORM:	PHONE:							
Name:				DATE:				
Title:				TIME:				
TIME STAFF ARRIVED ON-SITE:	1							
DID CUSTOMER CALL CLEANING CONTRACTOR If YES, name of contractor:	OR? E	Yes 🗆 No						
RESIDENT NAME:		IF RENT,						
☐ Owner		PROPERTY MANAGER(S):						
☐ Renter	(OWNER:						
STREET ADDRESS:	,	STREET ADDRESS:						
CITY, STATE AND ZIP:		CITY, STATE AND ZIP:						
PHONE:		PHONE:						
Is nearest upstream manhole visibly higher than the	ne draii	n/fixture that overflowed	? □ Y€	es 🗆	l No			
# OF PEOPLE LIVING AT RESIDENCE:								
Approximate Age of Home:	# of E	Bathrooms: # of Rooms Affected:				ed:		
Approximate Amount of Spill (gallons): App		proximate Time Sewage Has Been Sitting (hrs/days):						
Numbers of Photographs or Videos Taken: ☐ Photographs ☐ Video		What device are photo	os/video	stored	l on?			
Does property have a Property Line Cleanout or E	1] YES	□NO	□ Unknown			
If yes, was the Property Line Cleanout/BPD operational at the time of the overf] YES	□ №	□ Unknown		
Have there ever been any previous spills at this location?] YES	□ №	☐ Unknown		
Has the resident had any plumbing work done rec If YES, please describe:	ently?	С] YES	□ NO				

Sanitary Sewer Backup Response Packet First Responder Form

B-4 Side B

SANITARY SEWER LINE BLOCKAGE LOCATION

PLEASE CHECK TO DESCRIBE YOUR O			te the location of the sewer line problem occurred.
Customer Cleanout Was: Non-Existent Full Empty	Public Cleanout was: Non-Existent Full Empty	Affected House	Upstream House
		Did sewage go under building	gs? ☐ Yes ☐ No ☐ Unsure

Recommended Follow-Up Action(s):

B-5 Side A

Sanitary Sewer Backup Response Packet Sanitary Sewer Overflow Report

A. SSO LOCATION					
SSO Location Name:	Ma	ip Page:			
Latitude Coordinates*: Longitude	+				
Street Name and Number:					
Nearest Cross Street: City:	Ziŗ	Code:			
County: SSO Location Description:					
B. SSO OCCURRING TIME (complete Start Time Determination For	m and then complete inforn	nation below)			
Estimated SSO start date:	Estimated SSO start time:				
Date SSO reported to sewer crew:	Time SSO reported to sewe	er crew:			
Date sewer crew arrived:	Time sewer crew arrived:				
Who was interviewed to help determine start time?					
Estimated SSO end date:	Estimated SSO end time:				
C. Contact with Reporting Party/Customer					
Was contact made with reporting party? ☐ No ☐ Yes, Name/Phone:					
Maintenance Policy for Lateral Sewer Service provided to resident? $\ \square\ Y$	'es □No Door hang	er left? □ Yes □No			
Comments:					
D. SSO DESCRIPTION (Complete Volume Estimation Worksheets a SSO Category: ☐ Category 1 ☐ Category 2 ☐ Category 3	nd/or refer to Field Guide a	s needed for estimations.)			
SSO Appearance Point (check one or more): Combined Sewer D.I. (Call Lateral Cleanout (Private) Lateral Cleanout (Private) Inside	e Building or Structure 🏻 Mar	ce Main			
Were there multiple appearance points? ☐ No ☐ Yes, number of appe	earance points:				
Backflow valve present? ☐ Yes ☐ No Property Line Cleanout? ☐	·	out Cap present? ☐ Yes ☐ No			
Did the SSO reach a drainage channel and/or surface water? ☐ Yes (Ca					
If the SSO reached a storm sewer, was it fully captured and returned to the	he Sanitary Sewer? ☐ Yes	□No (Category 1)			
Was this spill from a private lateral? ☐ Yes ☐ No If YES, name of res	ponsible party:				
Final Spill Destination: ☐ Ocean/ocean beach* ☐ Surface waters of ☐ Separate Storm drain ☐ Combined storm drain ☐ Paved surface ☐ Other: *Provide name(s) of affected drainage channels, beach, etc.:	her than ocean □ Drainago □ Unpaveo				
Total Estimated SSO volume (in gallons – 1,000gal or more = Category	1):	gallons			
Est. volume that reached a separate storm drain that flows to a surface water body	y: gal	Recovered: gal			
Est. volume that reached a drainage channel that flows to a surface water body:	gal	Recovered: gal			
Est. volume discharged directly to a surface water body:	gal	Recovered: gal			
Est. volume discharged to land:	gal	Recovered: gal			
Calc. Methods: □Eyeball □Photo Comparison □Upstream Lat. Conne □Other (describe):	ctions □Area/Volume (include	de sketch/photo with dimensions)			

If multiple appearance points, use the GPS coordinates for the location of the SSO appearance point closest to the failure point/blockage. © 2004-2015 DKF Solutions Group All rights reserved.

B-5 Side B

Sanitary Sewer Backup Response Packet Sanitary Sewer Overflow Report

E. CAUSE OF SSO					
Where did failure occur? (Check all that apply): ☐ Air Relief or Blow-Off Valve ☐ Force Main ☐ Gravity Mainline ☐ Siphon					
☐ Lower Lateral (public) ☐ Lower Lateral (private) ☐ Manhole ☐ Pump Station (specify): ○Controls ○Mechanical ○Power					
□ Upper Lateral (public) □ Upper Lateral (private) Other:					
SSO cause (check all that apply): Air Relief or Blow-Off Valve Failure Construction Diversion Failure CS Maintenance					
☐ Damage by others ☐ Debris (specify): Ofrom Construction Ofrom Lateral OGeneral ORags ☐ Flow Exceeded Capacity					
☐ FROG (Fats, roots, oil, grease) ☐ Inappropriate Discharge ☐ Natural Disaster ☐ Operator Error ☐ Root Intrusion					
□ Pipe Structural Problem/Failure □ Pipe Structural Problem/Failure (Installation) □ Rainfall Exceeded Design					
□ Pump Station Failure (specify): ○Controls ○Mechanical ○Power □ Siphon Failure □ Vandalism					
□ Surcharged Pipe □ Non - Dispersible Wipes □ Other (specify):					
Diameter (in inches) of pipe at point of blockage/spill cause (if applicable):					
Sewer pipe material at point of blockage/spill cause (if applicable):					
Estimated age of sewer asset at the point of blockage or failure (if applicable):					
Description of terrain surrounding point of blockage/spill cause: ☐ Flat ☐ Mixed ☐ Steep					
Description of weather conditions:					
F. SSO RESPONSE					
SSO response activities (check all that apply): ☐ Cleaned-Up ☐ Mitigated Effects of Spill ☐ Contained All or Portion of Spill					
□ Restored Flow □ Returned All Spill to Sanitary Sewer System □ Returned Portion of Spill to Sanitary Sewer System					
☐ Property Owner Notified ☐ Other Enforcement Agency Notified (specify) ☐ Other (specify):					
SSO response completed (date & time):					
Visual inspection result of impacted waters (if applicable):					
Any fish killed? ☐ Yes ☐ No Any ongoing investigation? ☐ Yes ☐ No					
Were health warnings posted? ☐ Yes ☐ No If yes, provide health warning/beach closure posting/details:					
Was there a beach closure? ☐ Yes ☐ No If yes, name of closed beach(es):					
Were samples of impacted waters collected? ☐ Yes ☐ No					
If YES, select the analyses: ☐ DO ☐ Ammonia ☐ Bacteria ☐ pH ☐ Temperature ☐ Other:					
10-79 Regular: 10-79 O/T: Preventive maintenance:					
Other:					
Pressure bag used? ☐ Yes ☐ No					
Hand Rods: feet cuttersize:					
Jet Truck: feet Start M/H# Ending M/H#					
Video Inspection: feet Start M/H# Ending M/H#					
Description of Work Performed and Comments:					
Description of Work's enormied and Comments.					
List all agency personnel involved in the response including name, title and their role in the response:					
Recommended corrective actions: (check all that apply and provide detail)					
☐ Add sewer to preventive maintenance program ☐ Adjust schedule/method of preventive maintenance					
☐ Enforcement action against FROG source ☐ Inspect Sewer Using CCTV to Determine Cause					
☐ Plan rehabilitation or replacement of sewer ☐ Repair Facilities or Replace Defect ☐ Other (specify)					
Differ (specify)					
G. NOTIFICATION DETAILS					
CalOES contacted date/time (if applicable):					
CalOES Control Number (if applicable): Spoke to:					

TITLE:

DATE:

This form reviewed by: NAME:

Sanitary Sewer Backup Response Packet Start Time Determination Form

B-6

SSO Start Date:	Location:				
being even one minute of	mination is an essential part of f can have a huge impact on to increments. Start time must l sponders, etc.)	he volume esti	imation. Be as pre	cise as possible	e. Do
What time was the City no	otified of the SSO?			an	⁄I □PM
Who notified the City?					
Did they indicate what tim	ne they noticed the SSO? □ Y	ES □ NO If yes	, what time?	an	1 pM
Who at the City received	the notification?				
What time did the crew ar	rrive at the site of the SSO? _			an	1 🗆 PM
Who was interviewed reg statement they provided:	arding the start time of the SS	O? Include the	eir name, contact in	nformation, and	the
Name	Contact Information	Statement			
	u determined the start time fo				
SSO Start Date:	SSO	Start Time:		_ □ AM □ PM	
SSO End Date:	SSO	End Time:		_	
	sso	Duration:		_ minutes	
This form completed by:					
Name:		Signature:			
Job Title:		Date:			

Sanitary Sewer Backup Response Packet Volume Estimation: Eyeball Estimation Method

B-7a

Use this method only for small SSOs of less than 200 gallons.

SSO Date	:	Location:			
STEP 1:	Position yourself so that you have a vantage point where you can see the entire SSO.				
	Imagine one or more buckets or barrels of water tipped over. Depending on the size of the SSO, select a bucket or barrel size as a frame of reference. It may be necessary to use more than one bucket/barrel size.				
	Estimate how many of each those numbers in Column A sizes you are using as a frai	of the row in the ta		ke an equivalent spill. Enter conds to the bucket/barrel	
STEP 4:	Multiply the number in Colur	mn A by the multip	lier in Column B. Ente	r the result in Column C.	
	<u>. </u>	А	В	С	
	Size of bucket(s) or barrel(s)	How many of this size?	Multiplier	Estimated SSO Volume (gallons)	
	1 gallon water jug		x 1 gallons		
	5 gallon bucket		x 5 gallons		
	32 gallon trash can		x 32 gallons		
	55 gallon drum		x 55 gallons		
	Other: gallons		x gallons		
		Estimated 1	Total SSO Volume:		
If	s rainfall a factor in the SSO yes, what volume of the ob yes, describe how you dete	served spill volume			
STEP 6: C	alculate the estimated SSO	•			
_ E	gallons - Estimated SSO Volume	- <u>gallo</u> Rainfall	ns = Total Estima	gallons ted SSO Volume	
If no, you		ds to estimate the	entire SSO. If yes, it is	s advisable to use additional as not estimated the entire SSO	
This works Name: Job Title:	sheet completed by:	S [Signature: Date:		

B-7b Page 1

Sanitary Sewer Backup Response Packet Volume Estimation: Duration and Flow Rate Comparison Method

SSO Date	Location:
STEP 1:	Compare the SSO to reference images on the following pages (B-6b pages 2 through 4) to estimate flow rate of the current overflow. Describe which reference photo(s) were used and any additional factors that influenced applying the reference photo data to the actual SSO:
	Flow Rate Based on Photo Comparison:gallons per minute (gpm)
STEP 2:	Complete the Start Time Determination Form to provide a detailed description of how start time was determined. Copy the SSO Duration from the Start Time Determination Form here:
	SSO Duration:minutes
STEP 3:	Multiply the flow rate by the SSO duration to calculate the estimated SSO volume.
	gpm X minutes = gallons Flow Rate SSO Duration Estimated SSO Volume
STEP 4:	Did the SSO occur during a period of consistent flow in this portion of the system? □Yes □ No If no, explain how, based on this portion of the collection system and its users, you believe it may have impacted the estimated SSO volume:
	By what percentage are you adjusting the estimation? □ increase □ decrease
	Translate the percentage into gallons: gallons
STEP 5:	Calculate the adjusted SSO volume estimate:
	gallons + or - gallons = gallons Estimated SSO Volume Adjustment Estimated SSO volume
If no, you I	ieve that this method has estimated the entire SSO? □Yes □No MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional support the estimation. Explain why you believe this method has/has not estimated the entire SSO:
This works Name: Job Title:	heet completed by: Signature: Date:

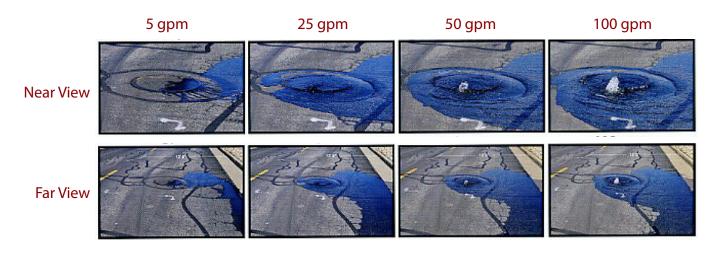
Sanitary Sewer Backup Response Packet Volume Estimation: Duration and Flow Rate Comparison Method

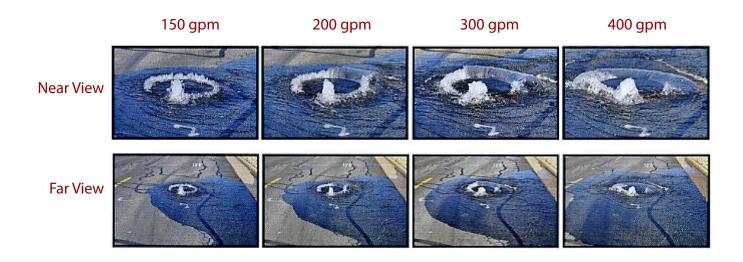
IMPORTANT NOTE:

These photographs are provided as examples only and will change with many factors.

SSCSC Manhole Overflow Gauge

CWEA Southern Section Collections Systems Committee Overflow Simulation courtesy of Eastern Municipal Water District





Sanitary Sewer Backup Response Packet Volume Estimation: Upstream Lateral Connections Method

B-7c

SSO Date:			Locat	ion:			
	Determine the number of Equivalent Dwelling Units (EDUs) for this SSO:EDUs NOTE: A single-family residential home = 1 EDU. For commercial buildings, refer to agency documentation.						
	This volume estimation method utilizes daily usage data based on flow rate studies of several jurisdictions in California. Column A shows how an average daily of usage of 180 gallons per day is distributed during each 6-hour period. Adjust the table as necessary to accurately represent the actual data.						
	time period. Mu	ıltiply colum	n D times (Column E to	calculate the	was active during gallons spilled du mated SSO Volui	ring each time
			Flow Ra	te Per EDU		S	SO
		Α	В	С	D	E	F
	Time Period	Gallons per Period	Hours per period	A÷B = Gallons per Hour	C÷60 = Gallons per Minute	Minutes SSO was active during period	D x E = Gallons spilled per period
	6am-noon	72	6	12	0.20		
	noon-6pm	36	6	6	0.10		
	6pm-midnight	54	6	9	0.15		
	midnight-6am	18	6	3	0.05		
Total Estimated SSO Volume per EDU:							
	3: Multiply the Estimated SSO Volume per EDU from Step 2 by the number of EDUs from Step 1. gallons X = =						
	4: Adjust SSO volume as necessary considering other factors, such as activity that would cause a fluctuating flow rate (doing laundry, taking showers, etc.). Explain rationale below and indicate adjusted SSO estimate (attach a separate page if necessary):						
	Estimated SSO Volume: gallons						
If no, you N		onal method	ds to estima	ate the entire	e SSO. If yes,	it is advisable to	use additional ed the entire SSO:
This works Name:	heet completed	by: Job T	itle: _	Signa	ture: Date:	_	

Sanitary Sewer Backup Response Packet Claims Submittal Checklist

1.	Complete the follow	ving information:
	Title:	
	Name:	
	Phone:	
	Today's Date:	
2.	Copy the items liste	ed below and retain originals for internal archiving purposes.
3.	Place the originals to the Management	back in the Backup Response Envelope and forward envelope with original forms Analyst:
	☐ Form B-3:	Sewer Lateral Release Form
	☐ Form B-4:	First Responder Form
	☐ Form B-5:	Sanitary Sewer Overflow Report
	Form B-6:	Start Time Determination Form
	☐ Form B-7:	Volume Estimation Forms (a, b and/or c)
	☐ Form B-8:	Claims Submittal Checklist (this form)
	☐ All photos t	aken: Check here if digital photographs will be forwarded separately \Box
	☐ Any other in	nformation you feel is important in this claim
4.	Go to Regulatory N	otifications Packet and make all appropriate notifications.
5.	Complete Form BP	-9: Collection System Failure Analysis

Management Analyst

- 1. Verify claims packet is complete.
- 2. Notify George Hills Company, Inc.

Claims Adjuster: Rodger Hayton

Address: 4010 Moorpark Avenue, Suite 106

San Jose, CA 95117

Telephone: (408) 260-2030

Sanitary Sewer Backup Response Packet Collection System Failure Analysis

B-9 Side A

Incident Report #		Prepared By			
SSO/Backup Information					
Event Date/Time		Address	Address		
Volume Spilled		Volume Recovere	d		
Cause					
Summary of Historical S	SOs/Ba	ckups/Service Cal	ls/Other Problems		
Date	Cause		Date Last Cleaned	Crew	
Records Reviewed By:			Record Review Date:		
Summary of CCTV Inform	nation				
CCTV Inspection Date			Tape Name/Number	•	
CCTV Tape Reviewed By		CCTV Review Date			
Observations					

Go to Side B

B-9 Side B

Sanitary Sewer Backup Response Packet Collection System Failure Analysis

Recommendations							
/	Туре	Specific Actions	Who is Responsible?	Completion Deadline	Who Will Verify Completion?		
	No Changes or Repairs Required	n/a	n/a	n/a	n/a		
	Repair(s)						
	Construction						
	Capital Improvement(s)						
	Change(s) to Maintenance Procedures						
	Change(s) to Overflow Response Procedures						
	Training						
	Misc.						
Cor	mments/Notes:						
Rev	view Date:						

Customer Service Packet

Form Number
Customer Information Letter
Claim Form2
Sewer Spill Reference Guide pamphlet
Instructions:
 Review the Customer Information letter to determine actions that need to be taken <u>immediately</u>.
See the Customer Information letter for information about filing a claim.
3. Review the Sewer Spill Reference Guide pamphlet.
If you have any questions contact:
Regarding Sewer Issues: Field Supervisor – Sewer Utility (650) 222-6460
Regarding Submitting a Claim for Damages: Management Analyst (650) 595-7433; nvoelker@belmont.gov
This packet provided by:
Name:
Title:
Date:

Print on 6" x 9" envelope © 2004 DKF Solutions Group, LLC. All rights reserved.

CS-1

Sanitary Sewer Backup Response Packet Customer Information Regarding Sewer Backup Claims

Dear Property Owner:

We recognize that sewer back flow incidents can be stressful. The City has prepared this brief set of instructions to help you minimize the impact of the loss by responding promptly to the situation.

The City is not responsible for cleanup charges or damages caused by blockages in the property owner's sewer line or caused by code violations. At this time, the City is investigating the cause of the loss and does not assume liability for damages. However, if our investigation determines the City is responsible for this incident, the costs you incur for reasonable and necessary cleanup will be included in the settlement of your claim. Regardless of who is responsible for the loss, it is up to you to arrange for the repair of your property and to present a claim for consideration.

You or the property owner should immediately contact a firm for clean-up of the affected areas. You may contact ServiceMaster Restore at (800) 480-8439, or another residential restoration provider for emergency cleanup services.

Please refer to the front of the Customer Service Packet for contact information if you have any guestions.

Sincerely,

City of Belmont

What you need to do now:

- Contact a restoration company for clean up and removal of affected surfaces.
- Do not attempt to clean the area yourself, let the company you hire handle this.
- Keep people and pets away from the affected area(s).
- Turn off heating/air conditioning systems.
- Turn off any appliances that use water.
- Prevent any material from reaching floor vents to prevent contamination.
- Do not remove items from the area –the company you hire will handle these contents.
- If you had recent plumbing work, contact your plumber or contractor.
- Contact your homeowner's insurance carrier to report a claim.
- File your claim with the City of Belmont Management Analyst as soon as practical. Contact information: One Twin Pines Lane, Suite 320, Belmont, CA 94002, (650) 595-7433, nvoelker@belmont.gov. The California Government Code, Sections 900 -960, requires filing a written claim and outlines specific time lines and notice procedures that must be used.
- Call the City's Claims Administrator and provide your contact number and the details of the backup: George Hills Co., Inc. (408) 260-2030



CLAIM FORM

City Claim	BE-
No.	

The undersigned hereby presents the following claim against the City of Belmont in accordance with the provisions of California Government Code Section 900, et. seq., or another state law:

Business Phone									
Mailing Address Street Apt. # City State Zip Code Date of Birth E-mail Address Date of Incident/Accident/Arrest ITime of Incident Location of Incident/Accident/Arrest Imaginary Imagi			ATION:						
Date of Birth Date of Incident/Accident/Arrest Date of Incident/Accident/Arrest Immediate Incident	Name of Claimant: Mr.	/Mrs./Ms.		Spouse's Na	ame			Busines ()	s Phone
Date of Incident/Accident/Arrest Time of Incident Location of Incident/Accident/Accident/Arrest am/pm	Mailing Address S	Mailing Address Street Apt.		Apt. #	City	<u> </u>	State	Zip Cod	е
Date injuries, damages, or losses were discovered (if different than above) Describe the Incident or Accident including your reason for believing that the City is liable for your damages WHAT SPECIFIC INJURIES, DAMAGES, OR LOSSES DID CLAIMANT RECEIVE? PLEASE ITEMIZE. Please attach repair estimates, proofs of purchase, or supporting documents currently in your possession. Items Model No. Age Repair Cost Replacement Cost Amount Claimed CITY USE Other Losses – attach documents currently in your possession supporting: lost wages, lost revenue, medical expenses, etc.) Use additional paper if necessary. Name(s) of Public Employee(s) you believe caused damages you are claiming: If amount is in excess of \$10,000 which is the appropriate court of jurisdiction? Note: If Superior and Municipal Courts are consolidated, you must represent whether it is a "limited civil case" [see Government Code 910(f)]. Please attach all receipts/estimates that are available. If this is a claim for indemnity, on what date were you served with the underlying lawsuit? I (we) the Claimant(s) referred to in the foregoing claim have read said claim, and DO HEREBY CERTIFY AND DECLARE, UNDER PENALTY OF PERJURY, THAT ALL STATEMENTS THEREIN ARE TRUE AND CORRECT. Signature of Claimant or Representative. Representative's Name: Address: Home Phone: Business Phone: Relationship to Claimant:	Date of Birth				E-ma	ail Address			
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Address: Home Phone: Relationship to Claimant:					D	ate			
Home Phone: Relationship to Claimant: Business Phone:	If signed by Represent	ative, Represe	ntative's Na	ime:					
Relationship to Claimant:	Address:								
·	Home Phone:					usiness Phone:			
	Relationship to Claimant:								
CONTACT AND FILING INFORMATION									

CONTACT AND FILING INFORMATION						
Direct questions you have regarding this claim to:	Submit claim to:					
George Hills Company	City of Belmont					
Claims Administrator	Finance Department					
(408) 260-2030	One Twin Pines Lane, Suite 320, Belmont, CA 94002					

How a Sewer System Works

A property owner's sewer pipes are called *service laterals* and are connected to larger local main and regional trunk lines.

Service laterals run from the connection at the home to the connection with the public sewer. These laterals are the responsibility of the property owner and must be maintained by the property owner.

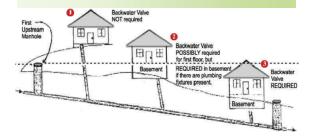


Is my home required to have a backflow prevention device?

Section 170.1 of the California Plumbing Code (U.P.C.) states: "Drainage piping serving fixtures which have flood level rims located below the elevation of the next upstream manhole cover or private sewer serving such drainage piping <u>shall</u> be protected from backflow of sewage by installing an approved type of backwater valve."

The intent of Section 710.1 is to protect the building interior from mainline sewer overflows or surcharges.

Additionally, U.P.C. states: "Backwater valves <u>shall</u> be located where they will be accessible for inspection and repair at all times and, unless continuously exposed, shall be enclosed in a masonry pit fitted with an adequately sized removable cover."



If you have a sewage spill from your private sewer line that impacts storm drains, waterways or public property, contact:

City of Belmont

(650) 595-7425

San Mateo County Environmental Health (650) 372-6200

California Health and Safety Code, Sections 510-5416 requires:

- No person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution, or a nuisance.
- Any person who causes or permits a sewage discharge to any state waters:
 - Must immediately notify the local health agency of the discharge.
 - Shall reimburse the local health agency for services that protect the public's health and safety.
 - Who fails to provide the required notice to the local health agency is guilty of a misdemeanor and shall be punished by a fine (between \$500-\$1,000) and/or imprisonment for less than one year.

San Francisco Regional Water Quality Control Board (510) 622-2300

Requires the prevention, mitigation, response to, and reporting of sewage spills.

California Governor's Office of Emergency Services (CalOES)

800.852.7550

California Water Code, Article 4, Chapter 4, Sections 13268-13271 & California Code of Regulations, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260 require:

- Any person who causes or permits sewage in excess of 1,000 gallons to be discharged to state waters shall immediately notify CalOES.
- Any person who fails to provide the notice required by this section is guilty of a misdemeanor and shall be punished by a fine (less than \$20,000) and/or imprisonment for not more than one year.

Sewer Spill Reference Guide

Your Responsibilities as a

Private Property Owner

Provided to you by:

City of Belmont Public Works Department



One Twin Pines Lane Belmont, CA 94002 Business Hours: (650) 595-7425 After Hours: (650) 595-7400

How do sewage spills happen?

Sewage spills occur when the wastewater in underground pipes overflows through a manhole, cleanout, or broken pipe. Most spills are relatively small and can be stopped and cleaned up quickly, but left unattended, they can cause health hazards, damage to homes and businesses, and threaten the environment, local waterways and beaches.



!\ CAUTION! !\



When trying to locate a sewer problem, never open manholes or other public sewer structures. Only our crews are allowed to open & inspect these structures.

Common causes of sewage spills

- Grease build-up
- Tree roots
- Broken/cracked pipes
- Missing or broken cleanout caps
- Undersized sewers
- Groundwater/rainwater entering the sewer system through pipe defects and illegal connections

Prevent most sewage backups with a Backflow **Prevention Device**

This type of device can help prevent sewage backups into homes and businesses. If you don't already have a Backflow Prevention Device, contact a professional plumber or contractor to install one as soon as possible.

Protect the environment!

If you let sewage from your property discharge to a gutter or storm drain, you may be subject to penalties and/or outof-pocket costs for cleanup and enforcement efforts. A property owner may be charged for costs incurred by agencies responding to spills from private properties.

What to look for:

Sewage spills can be a very noticeable gushing of water from a manhole or a slow water leak that may take time to be noticed. Don't dismiss unaccounted-for wet areas. Look for:

Drain backups inside the building

- Wet ground and/or water leaking around manhole lids onto your street.
- Leaking water from cleanouts or outside drains.
- Unusual odorous wet areas: sidewalks, external walls, ground/landscape around a building.

The following are indicators of a possible obstruction in vour sewer line:

- Water comes up in floor drains, showers or toilets.
- Toilets, showers or floor drains below ground level that drain very slowly.

What to do if there is a spill:

Immediately notify the City of Belmont at (650) 595-7425 during regular business hours, or (650) 595-7400 after hours. Our crews are trained to locate the blockage and determine if it is in the public sewer; if it is, the crew removes the blockage.

If the backup is in your private internal plumbing or in the private service laterals, you are required to immediately:

- Control and minimize the spill by shutting off or not using the water
- Keep sewage out of the storm drain system using sandbags, dirt and/or plastic sheeting
- Call a plumbing professional to clear blockages and make repairs as needed. Look in the yellow pages under "Plumbing Drain & Sewer Cleaning" or "Sewer Contractors"
- Always notify your Public Works Department of sewage spills.

Spill cleanup inside the home:

For large cleanups, a professional cleaning firm should be contracted to clean up impacted areas. The City of Belmont recommends Service Master Restore at (800) 480-8439. Sometimes homeowner's insurance will pay for the necessary cleaning due to sewer backups. Not all policies have this coverage, so check with your agent.

Other Tips:

- Keep children and pets out of the affected area until cleanup has been completed.
- Turn off heating/air conditioning systems
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area
- Discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.)
- Remove and discard drywall and insulation that has been contaminated with sewage or flood waters.

- Thoroughly clean all hard surfaces (such as flooring, concrete, molding, wood and metal furniture, countertops, appliances, sinks and other plumbing fixtures) with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing cleanup, wash your hands with soap and water. Use water that has been boiled for 1
 - minute (allow the water to cool before washing your hands) OR
 - use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.



Seek immediate attention if you become injured or ill.

Spill cleanup outside the home:

- Keep children and pets out of the affected area until cleanup has been completed.
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area
- Clean up sewage solids (fecal material) and place in properly functioning toilet or double bag and place in garbage container.
- On hard surfaces areas such as asphalt or concrete, it is safe to use a 2% bleach solution, or ½ cup of bleach to 5 gallons of water, but don't allow it to reach a storm drain as the bleach can harm the environment.
- After cleanup, wash hands with soap and water. Use water that has been boiled for 1 minute (allow the water to cool before washing your hands) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.



Seek immediate attention if you become injured or ill.

City of Belmont

, at (location)	On (date)	, at (location)		
blockage of the our property.	we responded to a reported blockage of the sanitary sewer service to your property.			
n:	We discovered a block	age in:		
and cleared the line	☐ The sanitary sewer	main and cleared the line		
ral, which is your n.	Your sanitary sewer responsibility to mai	· lateral, which is your ntain.		
clear your portion of the nternet or in the Yellow ok under "Sewer Prains & Sewer e a contractor we les from more than one	If you require assistance to clear your portion of the lateral you can look the Internet or in the Yellow Pages of your telephone book under "Sewer Contractors" or "Plumbing Drains & Sewer Cleaning". If you plan to hire a contractor we recommend getting estimates from more than one company.			
ive notes:	City of Belmont represe	entative notes:		
ive:	City of Belmont represe	entative:		
	blockage of the our property. n: and cleared the line ral, which is your n. clear your portion of the nternet or in the Yellow ok under "Sewer brains & Sewer e a contractor we es from more than one	blockage of the bur property. m: mand cleared the line ral, which is your notes: clear your portion of the nternet or in the Yellow ok under "Sewer ea contractor we es from more than one we responded to a reposanitary sewer service. We discovered a blockate of the sanitary sewer responsibility to main lateral your sanitary sewer responsibility to main lateral you can look the Pages of your telephon Contractors" or "Plumbing Cleaning". If you plan to recommend getting est company. City of Belmont representations of the pages of your telephon Contractors or "Plumbing Cleaning". If you plan to recommend getting est company.		

For questions or comments, please call

City of Belmont (650) 595-7425

For questions or comments, please call

City of Belmont

On (date) _____, at (location)

City of Belmont (650) 595-7425

Appendix C SANITARY SEWER OVERFLOW RESPONSE PACKET

Sanitary Sewer Overflow Response Packet **Table of Contents**

<u>Form</u>	Form Number
Instructions and Chain of Custody	envelope label
Overflow Response Flowchart	C-1
Sanitary Sewer Overflow Report	2
Start Time Determination Form	3
Volume Estimation Forms	4a, -4b, -4c
Collection System Failure Analysis Report	5
Regulatory Notifications Packet Instructions	A-1 2a 2b
Door Hanger	
Public Posting Sign	
Sewer Spill Reference Guide	

In the event of a **Sanitary Sewer Overflow READ THIS FIRST**



t	☐ If this is a Category 1 SSO greater than or equal to 1,000 gallons, IMMEDIATELY contact the Field Supervisor – Sewer Utility at (650) 222-6460 to make the 2-hour notification to CalOES.									
	□ Check here if you believe that fats, roots, oils and/grease (FROG) caused or contributed to the SSO.									
	Media requests must be directed to the Public Works Dire	ctor at (650) 595-7459.								
	Instructions Don't forget photos!									
Field	Follow the instructions on the Sewer Overflow Response Flowchart (C-1). Refer to the Field Guide as necessary. Place completed forms, camera (if applicable), and any additional notes/documentation in this envelope. Complete the Chain of Custody record (right) and forward this packet to the Field Supervisor – Sewer Utility.	Print Name: Initial: Date: Time:								
Field	Review the enclosed forms. Complete the Regulatory Notifications Packet. Place completed forms, camera (if applicable), and any additional notes/documentation in this envelope. Complete the Chain of Custody Record (right) and file this completed Sewer Overflow Packet in accordance with City policy. Debrief using the Collection System Failure Analysis Form.	Print Name: Initial: Date: Time:								

MEDIA AND PUBLIC RELATIONS GUIDELINES:

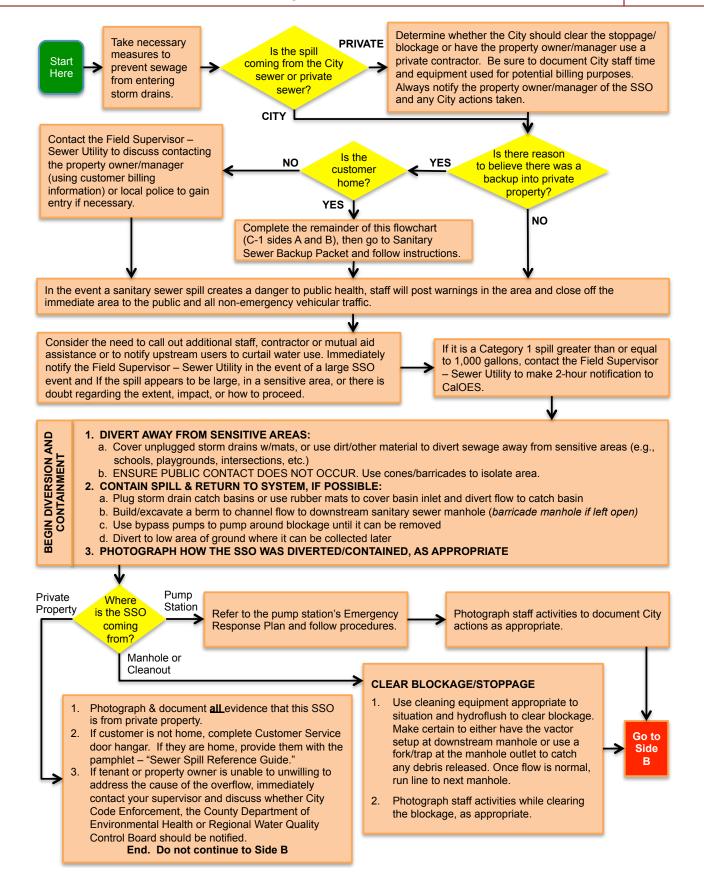
Exercise caution in contacts with the public or media when you respond to a spill. Any information you provide or statements you make may become pertinent in the event of possible court action, it is important to **AVOID THE FOLLOWING**:

- Giving out the wrong information including providing incorrect facts about a company or other agency
- Making accusations against customers, businesses or other agencies
 Speculating about the situation you are responding to

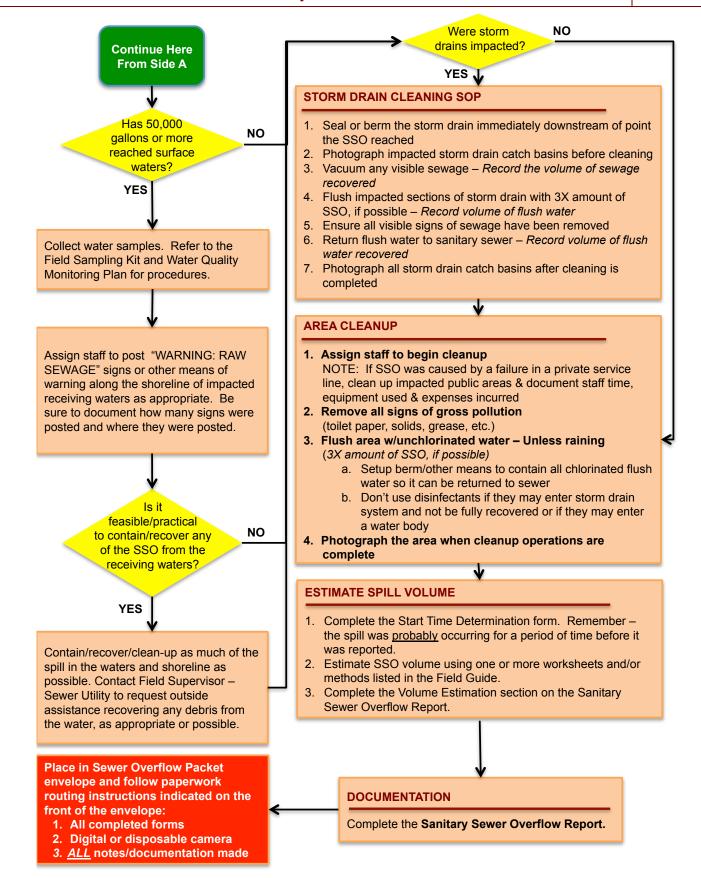
Be courteous and attempt to provide accurate information to questions within the limits above. In some cases, it may be appropriate to say that we do not have any information, or to delay answering a question and then to say when an answer might be available. Refer media requests to the media coordinator as indicated on the front of the Sewer Overflow Packet envelope.

City of Belmont Overflow Emergency Response Plan: Sanitary Sewer Overflow Packet

Sanitary Sewer Overflow Response Packet Overflow Response Flowchart



Sanitary Sewer Overflow Response Packet Overflow Response Flowchart



C-2 Side A

Sanitary Sewer Overflow Response Packet Sanitary Sewer Overflow Report

A. SSO LOCATION							
SSO Location Name:	SO Location Name: Map Page:						
Latitude Coordinates : Longitude	Longitude Coordinates:						
Street Name and Number:							
Nearest Cross Street: City:	Zip	Code:					
County: SSO Location Description:							
B. SSO OCCURRING TIME (complete Start Time Determination Form	and then complete inform	ation below)					
Estimated SSO start date:	Estimated SSO start time:	,					
Date SSO reported to sewer crew:	Time SSO reported to sewe	r crew:					
Date sewer crew arrived:	Time sewer crew arrived:						
Who was interviewed to help determine start time?							
Estimated SSO end date:	Estimated SSO end time:						
C. Contact with Reporting Party/Customer							
Was contact made with reporting party? ☐ No ☐ Yes, Name/Phone:							
Maintenance Policy for Lateral Sewer Service provided to resident? ☐ Ye	es □No Door hange	r left? □ Yes □No					
Comments:							
D. SSO DESCRIPTION (Complete Volume Estimation Worksheets and SSO Category: ☐ Category 1 ☐ Category 2 ☐ Category 3	id/or refer to Field Guide as	needed for estimations.)					
SSO Appearance Point (check one or more): ☐ Combined Sewer D.I. (C☐ ☐ Lateral Cleanout (Private) ☐ Lateral Cleanout (Public) ☐ Inside ☐ Lower Lateral (Private) ☐ Lower Lateral (Public) ☐ Upper ☐ Other Sewer System Structure (specify):	Building or Structure ☐ Manh						
Were there multiple appearance points? ☐ No ☐ Yes, number of appearance	arance points:						
Backflow valve present? ☐ Yes ☐ No Property Line Cleanout? ☐	Yes □No Cleanou	ut Cap present? □ Yes □No					
Did the SSO reach a drainage channel and/or surface water? ☐ Yes (Ca							
If the SSO reached a storm sewer, was it fully captured and returned to the	•	□No (<i>Category 1</i>)					
Was this spill from a private lateral? ☐ Yes ☐ No If YES, name of resp	oonsible party:						
Final Spill Destination: ☐ Ocean/ocean beach* ☐ Surface waters oth ☐ Separate Storm drain ☐ Combined storm drain ☐ Paved surface ☐ Other: *Provide name(s) of affected drainage channels, beach, etc.:	er than ocean □ Drainage □ Unpaved						
Total Estimated SSO volume (in gallons – 1,000gal or more = Category 1):	gallons					
Est. volume that reached a separate storm drain that flows to a surface water body	: gal	Recovered: gal					
Est. volume that reached a drainage channel that flows to a surface water body:	gal	Recovered: gal					
Est. volume discharged directly to a surface water body:	gal	Recovered: gal					
Est. volume discharged to land:	gal	Recovered: gal					
Calc. Methods: □Eyeball □Photo Comparison □Upstream Lat. Connect □Other (describe):	ctions □Area/Volume (include	e sketch/photo with dimensions)					

If multiple appearance points, use the GPS coordinates for the location of the SSO appearance point closest to the failure point/blockage. © 2004-2015 DKF Solutions Group, LLC. All rights reserved.

C-2 Side B

Sanitary Sewer Overflow Response Packet Sanitary Sewer Overflow Report

E. CAUSE OF SSO							
Where did failure occur? (Check all that apply): ☐ Air Relief or Blow-Off Valve ☐ Force Main ☐ Gravity Mainline ☐ Siphon ☐ Lower Lateral (public) ☐ Lower Lateral (private) ☐ Manhole ☐ Pump Station (specify): ○Controls ○Mechanical ○Power							
□ Upper Lateral (public) □ Upper Lateral (private) Other:							
SSO cause (check all that apply): Air Relief or Blow-Off Valve Failure Construction Diversion Failure CS Maintenance							
□ Damage by others □ Debris (specify): Ofrom Construction Ofrom Lateral OGeneral ORags □ Flow Exceeded Capacity							
☐ FROG (Fats, roots, oil, grease) ☐ Inappropriate Discharge ☐ Natural Disaster ☐ Operator Error ☐ Root Intrusion							
☐ Pipe Structural Problem/Failure ☐ Pipe Structural Problem/Failure (Installation) ☐ Rainfall Exceeded Design							
□ Pump Station Failure (specify): OControls OMechanical OPower □ Siphon Failure □ Vandalism							
□ Surcharged Pipe □ Non - Dispersible Wipes □ Other (specify):							
Diameter (in inches) of pipe at point of blockage/spill cause (if applicable):							
Sewer pipe material at point of blockage/spill cause (if applicable): Estimated age of sewer asset at the point of blockage or failure (if applicable):							
Description of terrain surrounding point of blockage/spill cause: Flat Mixed Steep							
Description of weather conditions:							
F. SSO RESPONSE							
SSO response activities (check all that apply): ☐ Cleaned-Up ☐ Mitigated Effects of Spill ☐ Contained All or Portion of Spill							
□ Restored Flow □ Returned All Spill to Sanitary Sewer System □ Returned Portion of Spill to Sanitary Sewer System							
□ Property Owner Notified □ Other Enforcement Agency Notified (specify) □ Other (specify):							
SSO response completed (date & time):							
Visual inspection result of impacted waters (if applicable):							
Any fish killed? ☐ Yes ☐ No Any ongoing investigation? ☐ Yes ☐ No							
Were health warnings posted? ☐ Yes ☐ No If yes, provide health warning/beach closure posting/details:							
Was there a beach closure? \square Yes \square No If yes, name of closed beach(es):							
Were samples of impacted waters collected? ☐ Yes ☐ No							
If YES, select the analyses: □ DO □ Ammonia □ Bacteria □ pH □ Temperature □ Other:							
10-79 Regular: 10-79 O/T: Preventive maintenance: Other:							
Pressure bag used? Yes No							
Hand Rods: feet cuttersize:							
Jet Truck: feet							
Video Inspection:							
Description of Work Performed and Comments:							
List all agency personnel involved in the response including name, title and their role in the response:							
Recommended corrective actions: (check all that apply and provide detail)							
□ Add sewer to preventive maintenance program □ Adjust schedule/method of preventive maintenance							
☐ Enforcement action against FROG source ☐ Inspect Sewer Using CCTV to Determine Cause							
☐ Plan rehabilitation or replacement of sewer ☐ Repair Facilities or Replace Defect ☐ Other (specify)							
Li Ottici (apecity)							
G. NOTIFICATION DETAILS							
G. NOTIFICATION DETAILS CalOES contacted date/time (if applicable): CalOES Control Number (if applicable): Spoke to:							
CalOES contacted date/time (if applicable):							
CalOES contacted date/time (if applicable):							

TITLE:

DATE:

This form reviewed by: NAME:

C-3

Sanitary Sewer Overflow Response Packet Start Time Determination Form

SSO Start Date:	Location:			
being even one minute of	mination is an essential part of ff can have a huge impact on t increments. Start time must b sponders, etc.)	he volume estimation.	Be as precise as possible	. Do
What time was the City n	otified of the SSO?			□ PM
Who notified the City?				
Did they indicate what tim	ne they noticed the SSO? □ Y	ES □ NO If yes, what time	e? 🗆 AM	□ PM
Who at the City received	the notification?			
What time did the crew a	rrive at the site of the SSO? _			□ PM
Who was interviewed reg statement they provided:	arding the start time of the SS	O? Include their name,	contact information, and t	the
Name	Contact Information	Statement		
Describe in detail how yo	u determined the start time for	this particular SSO:		
SSO Start Date:	\$50	Start Time:	□ AM □ PM	
			minutes	
This form completed by:				
Name:		Signature:		
Job Title:		Date:		

C-4a

Sanitary Sewer Overflow Response Packet Volume Estimation: Eyeball Estimation Method

Use this method only for small SSOs of less than 200 gallons. SSO Date: Location: STEP 1: Position yourself so that you have a vantage point where you can see the entire SSO. STEP 2: Imagine one or more buckets or barrels of water tipped over. Depending on the size of the SSO, select a bucket or barrel size as a frame of reference. It may be necessary to use more than one bucket/barrel size. STEP 3: Estimate how many of each size bucket or barrel it would take to make an equivalent spill. Enter those numbers in Column A of the row in the table below that corresponds to the bucket/barrel sizes you are using as a frame of reference. STEP 4: Multiply the number in Column A by the multiplier in Column B. Enter the result in Column C. Α Size of bucket(s) or How many Estimated SSO Multiplier of this size? barrel(s) Volume (gallons) 1 gallon water jug x 1 gallons 5 gallon bucket x 5 gallons 32 gallon trash can x 32 gallons 55 gallon drum x 55 gallons Other: gallons x ____ gallons **Estimated Total SSO Volume:** STEP 5: Is rainfall a factor in the SSO? ☐ Yes ☐ No If yes, what volume of the observed spill volume do you estimate is rainfall? gallons If yes, describe how you determined the amount of rainfall in the observed spill? STEP 6: Calculate the estimated SSO volume by subtracting the rainfall from the SSO volume: gallons - gallons = gallons **Total Estimated SSO Volume** Estimated SSO Volume Rainfall Do you believe that this method has estimated the entire SSO? ☐Yes ☐No If no, you MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional methods to support the estimation. Explain why you believe this method has/has not estimated the entire SSO:

Date:

Signature:

This worksheet completed by:

Job Title:

Name:

C-4bPage 1

Sanitary Sewer Overflow Response Packet Volume Estimation: Duration and Flow Rate Comparison Method

SSO Date	: Location:							
STEP 1:	Compare the SSO to reference images on the following pages (C-4b pages 2 through 4) to estimate flow rate of the current overflow. Describe which reference photo(s) were used and any additional factors that influenced applying the reference photo data to the actual SSO:							
	Flow Rate Based on Photo Comparison:gallons per minute (gpm)							
STEP 2:	Complete the Start Time Determination Form to provide a detailed description of how start time was determined. Copy the SSO Duration from the Start Time Determination Form here:							
	SSO Duration:minutes							
STEP 3:	Multiply the flow rate by the SSO duration to calculate the estimated SSO volume.							
	gpm Flow RateXminutes SSO Duration=gallons Estimated SSO Volume							
STEP 4:	Did the SSO occur during a period of consistent flow in this portion of the system? $\ \square \ $ Yes $\ \square \ $ No							
	If no, explain how, based on this portion of the collection system and its users, you believe it may have impacted the estimated SSO volume:							
	By what percentage are you adjusting the estimation? □ increase □ decrease%							
	Translate the percentage into gallons: gallons							
STEP 5:	Calculate the adjusted SSO volume estimate:							
	gallons + or - gallons = gallons							
	Estimated SSO Volume Adjustment Estimated SSO volume							
If no, you I	lieve that this method has estimated the entire SSO? □Yes □No MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional support the estimation. Explain why you believe this method has/has not estimated the entire SSO:							
This works	sheet completed by: Signature:							
Job Title:	Signature: Date:							

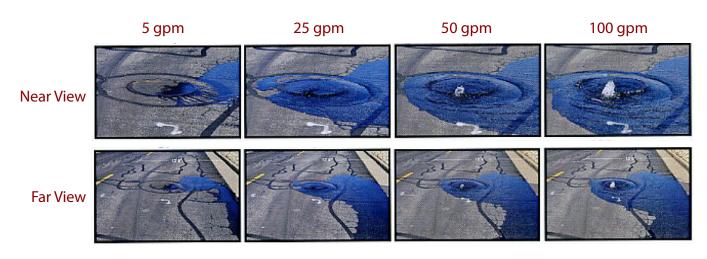
Sanitary Sewer Overflow Response Packet Volume Estimation: Duration and Flow Rate Comparison Method

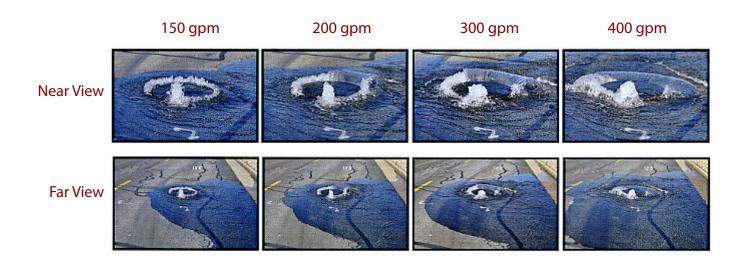
IMPORTANT NOTE:

These photographs are provided as examples only and will change with many factors.

SSCSC Manhole Overflow Gauge

CWEA Southern Section Collections Systems Committee Overflow Simulation courtesy of Eastern Municipal Water District





C-4c

Sanitary Sewer Overflow Response Packet Volume Estimation: Upstream Lateral Connections Method

SSO Date:			Loca	ation:					
STEP 1:						nis SSO: Idings, refer to age	EDUs ncy documentation.		
STEP 2:	jurisdictions in (California. C	Column A	shows how a	n average dail	on flow rate studion y of usage of 180 essary to accurat			
	time period. Mu	Complete Column E by entering the number of minutes the SSO was active during each 6-hour time period. Multiply column D times Column E to calculate the gallons spilled during each time period. Add the numbers in Column F together for the Total Estimated SSO Volume per EDU.							
			Flow Rate Per EDU			S	so		
		Α	В	С	D	E	F		
	Time Period	Gallons per Period	Hours per period	A÷B = Gallons per Hour	C ÷ 60 = Gallons per Minute	Minutes SSO was active during period	D × E = Gallons spilled per period		
	6am-noon	72	6	12	0.20				
	noon-6pm	36	6	6	0.10				
	6pm-midnight	54	6	9	0.15				
	midnight-6am	18	6	3	0.05				
			•	Total Estim	ated SSO Vol	ume per EDU:			
STEP 3: STEP 4:	Volume per ED Adjust SSO volu	gallons X U ume as nec rate (doing	# of El essary co laundry, t	DUs E	Estimated SSC er factors, such s, etc.). Explai	number of EDUs gallons Volume n as activity that v in rationale below	would cause a		
	Estimated SSO	·			•				
If no, you N		onal method	ds to estir	mate the entire	e SSO. If yes,	it is advisable to	use additional ed the entire SSO:		
This works Name: Job Title:	heet completed	•		Signa Date:					

Sanitary Sewer Overflow Response Packet Collection System Failure Analysis

Incident Report #			Prepared By				
SSO/Backup Information							
Event Date/Time		Address	Address				
Volume Spilled		Volume Recovere	d				
Cause							
Summary of Historical S	SOs/Bac	ckups/Service Cal	ls/Other Problems				
Date	Cause		Date Last Cleaned	Crew			
Records Reviewed By:			Record Review Date:				
Summary of CCTV Inform	nation						
CCTV Inspection Date			Tape Name/Number				
CCTV Tape Reviewed By			CCTV Review Date				
Observations							
Summary of CCTV Inform CCTV Inspection Date CCTV Tape Reviewed By	nation		Tape Name/Number				

C-5 Side B

Sanitary Sewer Overflow Response Packet Collection System Failure Analysis

Red	Recommendations								
1	Туре	Specific Actions	Who is Responsible?	Completion Deadline	Who Will Verify Completion?				
	No Changes or Repairs Required	n/a	n/a	n/a	n/a				
	Repair(s)								
	Construction								
	Capital Improvement(s)								
	Change(s) to Maintenance Procedures								
	Change(s) to Overflow Response Procedures								
	Training								
	Misc.								
	Comments/Notes:								
Ke	view Date:								

Overflow Emergency Response Plan Public Posting

DANGER

RAW SEWAGE • AVOID CONTACT



PELIGRO

AGUA CONTAMINADA ● EVITE TODO CONTACTO

City of Belmont

(650) 595-7425

City of Belmont

On (date)	, at (location)	On (date)	, at (location)					
we responded to a reported b sanitary sewer service to you	=	we responded to a reported blockage of the sanitary sewer service to your property.						
We discovered a blockage in:		We discovered a bloc	kage in:					
☐ The sanitary sewer main a	and cleared the line	☐ The sanitary sewe	r main and cleared the line					
☐ Your sanitary sewer latera responsibility to maintain.	ıl, which is your	☐ Your sanitary seweresponsibility to ma	er lateral, which is your aintain.					
If you require assistance to clateral you can look on the Interaction Pages of your telephone book Contractors" or "Plumbing Dra Cleaning". If you plan to hire recommend getting estimates company.	ernet or in the Yellow k under "Sewer ains & Sewer a contractor we	lateral you can look the Pages of your telephon Contractors" or "Plum Cleaning". If you plan	nce to clear your portion of the ne Internet or in the Yellow one book under "Sewer bing Drains & Sewer n to hire a contractor we estimates from more than one					
City of Belmont representative	e notes:	City of Belmont repres	sentative notes:					
City of Belmont representative	e:	City of Belmont repres	sentative:					

For questions or comments, please call

City of Belmont (650) 595-7425

For questions or comments, please call

City of Belmont

City of Belmont (650) 595-7425

How a Sewer System Works

A property owner's sewer pipes are called *service laterals* and are connected to larger local main and regional trunk lines.

Service laterals run from the connection at the home to the connection with the public sewer. These laterals are the responsibility of the property owner and must be maintained by the property owner.

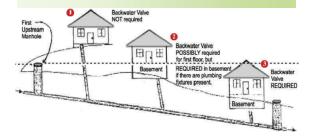


Is my home required to have a backflow prevention device?

Section 170.1 of the California Plumbing Code (U.P.C.) states: "Drainage piping serving fixtures which have flood level rims located below the elevation of the next upstream manhole cover or private sewer serving such drainage piping <u>shall</u> be protected from backflow of sewage by installing an approved type of backwater valve."

The intent of Section 710.1 is to protect the building interior from mainline sewer overflows or surcharges.

Additionally, U.P.C. states: "Backwater valves <u>shall</u> be located where they will be accessible for inspection and repair at all times and, unless continuously exposed, shall be enclosed in a masonry pit fitted with an adequately sized removable cover."



If you have a sewage spill from your private sewer line that impacts storm drains, waterways or public property, contact:

City of Belmont

(650) 595-7425

San Mateo County Environmental Health (650) 372-6200

California Health and Safety Code, Sections 510-5416 requires:

- No person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution, or a nuisance.
- Any person who causes or permits a sewage discharge to any state waters:
 - Must immediately notify the local health agency of the discharge.
 - Shall reimburse the local health agency for services that protect the public's health and safety.
 - Who fails to provide the required notice to the local health agency is guilty of a misdemeanor and shall be punished by a fine (between \$500-\$1,000) and/or imprisonment for less than one year.

San Francisco Regional Water Quality Control Board (510) 622-2300

Requires the prevention, mitigation, response to, and reporting of sewage spills.

California Governor's Office of Emergency Services (CalOES)

800.852.7550

California Water Code, Article 4, Chapter 4, Sections 13268-13271 & California Code of Regulations, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260 require:

- Any person who causes or permits sewage in excess of 1,000 gallons to be discharged to state waters shall immediately notify CalOES.
- Any person who fails to provide the notice required by this section is guilty of a misdemeanor and shall be punished by a fine (less than \$20,000) and/or imprisonment for not more than one year.

Sewer Spill Reference Guide

Your Responsibilities as a

Private Property Owner

Provided to you by:

City of Belmont Public Works Department



One Twin Pines Lane Belmont, CA 94002 Business Hours: (650) 595-7425 After Hours: (650) 595-7400

How do sewage spills happen?

Sewage spills occur when the wastewater in underground pipes overflows through a manhole, cleanout, or broken pipe. Most spills are relatively small and can be stopped and cleaned up quickly, but left unattended, they can cause health hazards, damage to homes and businesses, and threaten the environment, local waterways and beaches.



!\ CAUTION! !\



When trying to locate a sewer problem, never open manholes or other public sewer structures. Only our crews are allowed to open & inspect these structures.

Common causes of sewage spills

- Grease build-up
- Tree roots
- Broken/cracked pipes
- Missing or broken cleanout caps
- Undersized sewers
- Groundwater/rainwater entering the sewer system through pipe defects and illegal connections

Prevent most sewage backups with a Backflow **Prevention Device**

This type of device can help prevent sewage backups into homes and businesses. If you don't already have a Backflow Prevention Device, contact a professional plumber or contractor to install one as soon as possible.

Protect the environment!

If you let sewage from your property discharge to a gutter or storm drain, you may be subject to penalties and/or outof-pocket costs for cleanup and enforcement efforts. A property owner may be charged for costs incurred by agencies responding to spills from private properties.

What to look for:

Sewage spills can be a very noticeable gushing of water from a manhole or a slow water leak that may take time to be noticed. Don't dismiss unaccounted-for wet areas. Look for:

Drain backups inside the building

- Wet ground and/or water leaking around manhole lids onto your street.
- Leaking water from cleanouts or outside drains.
- Unusual odorous wet areas: sidewalks, external walls, ground/landscape around a building.

The following are indicators of a possible obstruction in vour sewer line:

- Water comes up in floor drains, showers or toilets.
- Toilets, showers or floor drains below ground level that drain very slowly.

What to do if there is a spill:

Immediately notify the City of Belmont at (650) 595-7425 during regular business hours, or (650) 595-7400 after hours. Our crews are trained to locate the blockage and determine if it is in the public sewer; if it is, the crew removes the blockage.

If the backup is in your private internal plumbing or in the private service laterals, you are required to immediately:

- Control and minimize the spill by shutting off or not using the water
- Keep sewage out of the storm drain system using sandbags, dirt and/or plastic sheeting
- Call a plumbing professional to clear blockages and make repairs as needed. Look in the yellow pages under "Plumbing Drain & Sewer Cleaning" or "Sewer Contractors"
- Always notify your Public Works Department of sewage spills.

Spill cleanup inside the home:

For large cleanups, a professional cleaning firm should be contracted to clean up impacted areas. The City of Belmont recommends Service Master Restore at (800) 480-8439. Sometimes homeowner's insurance will pay for the necessary cleaning due to sewer backups. Not all policies have this coverage, so check with your agent.

Other Tips:

- Keep children and pets out of the affected area until cleanup has been completed.
- Turn off heating/air conditioning systems
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area
- Discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.)
- Remove and discard drywall and insulation that has been contaminated with sewage or flood waters.

- Thoroughly clean all hard surfaces (such as flooring, concrete, molding, wood and metal furniture, countertops, appliances, sinks and other plumbing fixtures) with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing cleanup, wash your hands with soap and water. Use water that has been boiled for 1
 - minute (allow the water to cool before washing your hands) OR
 - use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.



Seek immediate attention if you become injured or ill.

Spill cleanup outside the home:

- Keep children and pets out of the affected area until cleanup has been completed.
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area
- Clean up sewage solids (fecal material) and place in properly functioning toilet or double bag and place in garbage container.
- On hard surfaces areas such as asphalt or concrete, it is safe to use a 2% bleach solution, or ½ cup of bleach to 5 gallons of water, but don't allow it to reach a storm drain as the bleach can harm the environment.
- After cleanup, wash hands with soap and water. Use water that has been boiled for 1 minute (allow the water to cool before washing your hands) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.



Seek immediate attention if you become injured or ill.

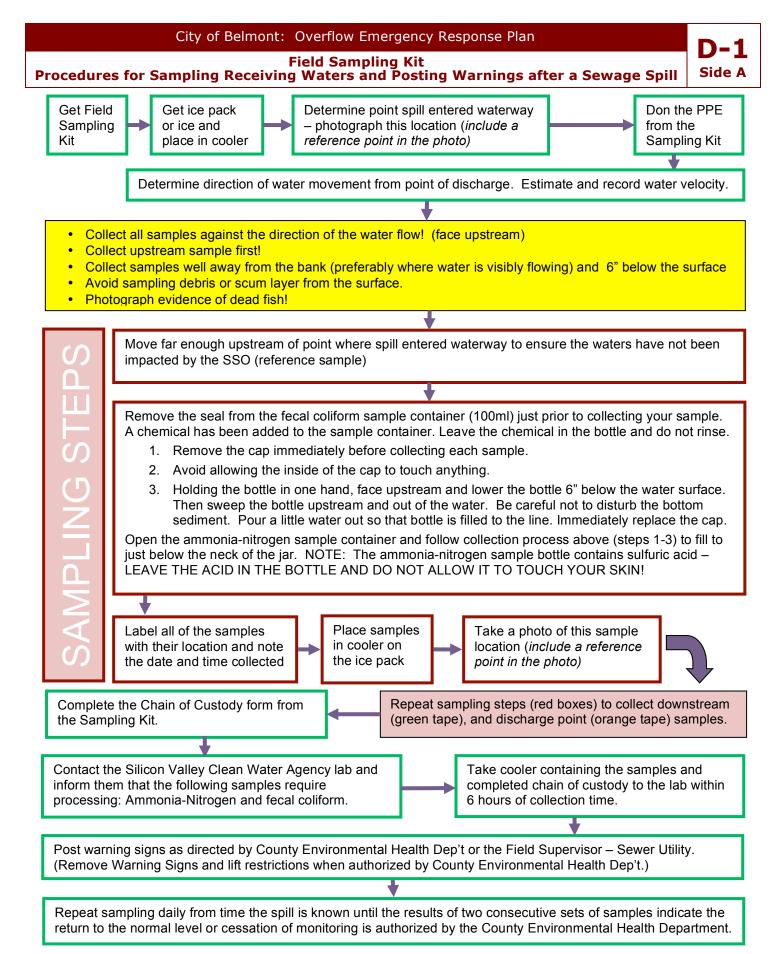
Appendix D FIELD SAMPLING KIT

Field Sampling Kit Table of Contents

<u>Form</u>	Form Number
Procedures for Sampling Receiving Waters and Posting Warnings after a Sewage Spill	D 1
vvairiiligs after a Sewage Spill	۱-ل-۱
Sample Collection Chain of Custody Record	2

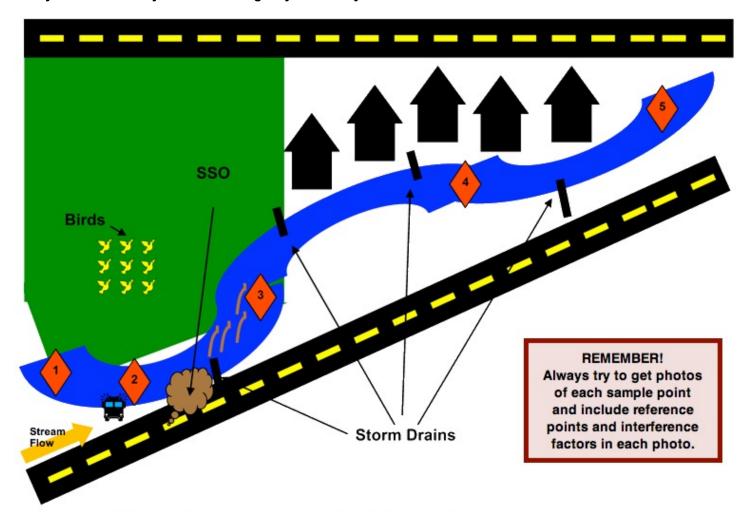
Go to Water Quality Sampling Area and get the following supplies:

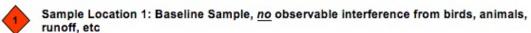
- Ice pack
- Ice
- Sample pole
- Latex gloves
- Long rubber gloves
- Safety glasses
- Waterproof Pen (i.e. Sharpie[®])
- Chain of Custody form
- Sample Containers
 - Bac-T
 - Ammonia



Field Sampling Kit Procedures for Sampling Receiving Waters after a Sewage Spill

This example is provided for illustrative purposes <u>only!</u> Base each sampling event on the geography, drainage and interference factors (*i.e. birds, animals, runoff, etc.*) of the area impacted. Consult Field Supervisor – Sewer Utility or Silicon Valley Clean Water Agency laboratory as needed.





Sample Location 2: Baseline Sample, <u>observable</u> interference from birds, animals, runoff, etc

NOTE: Only collect this sample if you observe any possible interfering factors upstream from the spill location

Sample Location 3: Immediately downstream of SSO entry point

Sample Location 4: Further downstream of SSO entry point – note any possible interfering factors

Sample Location 5: Further downstream of SSO entry point – note any possible interfering factors

Field Sampling Kit Sample Collection Chain of Custody Record

I)	

Customer Name	Customer Name					□ Hazardous Waste						О#						
Customer Address								☐ Unknown Material						/O#				
Customer Telephor	1е	Mail Code				CONTRACT LAB INFORMATION						Т	Turnaround Requirement					
Program Name	n Name				Sh			Ship	to:						☐ Normal (21 days)			
Lab Program Coordinator			Phone #				Ship Date:							□ Rush:				
Sampled By								Courier:							☐ Other:			
		SAMPLE COLLECTION INFORMATION									A	Analysis Reque					C Requirements	
		Ту		pe											_	b Standard		
									#							□ St	pecial (see attached)	
LIMS# (Issued by Lab)	Date	Time	Composite	Grab	Sample	e Location	Field pH	Field Temp	Containers	Matrix*	Ammonia	Enterococcus				Re	marks/Notes	
(1930CG by Lab)				X	Upstream				2		X	X						
				×	Entry Poir				2		×	×						
				×	Downstream				2		×	×					-	
					201111011101	<u></u>			2									
									2									
									2									
									2									
*Matrix: F	P = Potable	e Water. W =			\ = Ambient	Water, G = Gr	oundwater. S	S = Soil			. I = In	dustria	l .	l	r (spe	cifv in rer	 narks)	
		· ·				,	· ·		·				•		· ·			
Relinquish	ed	Date	Time		Relinquished to				Date	Tim	е	Transport/Shipping Information						
													USPS			JPS	□ FedEx	
												Tracing #:						
													Other:	:				
Sample Receiving Documentation																		
Container intact? ☐ Yes ☐ No Correct container? ☐ Yes ☐ No Fie						Field pres	Field preserved? ☐ Yes ☐ No Custody tape intact? ☐ Yes ☐ No						∕es □ No					
Cooled? ☐ Yes ☐ No Temp. Blank? ☐ Yes ☐ No (°C) Co							Commen	Comments:										
Sample distribution: ☐ Lab bench ☐ Ice chest ☐ Walk-in cooler shelf #					Disposal	Disposal Date: Disposed by:						(inits.)						
C-O-C Distribution	Date:	Ву:				Lab Admin File	e □ Prog	/proj M	gr. 🗆	Lab Pr	og. Co	ord.		elive:	y cour	ier 🗆	Pick-up courier	

Appendix E CONTRACTOR ORIENTATION

CONTRACTOR ORIENTATION

The following procedures are to be followed in the event that you cause or witness a Sanitary Sewer Overflow.



Immediately notify the City

Business Hours: (650) 595-7425

After Hours: (650) 595-7400 Police Dispatch

Protect the storm drains

using mats, dikes, berms, etc.

Protect the Public

If the spill is entering an area where public contact may occur, and if it is safe to do so, monitor the location until the City Field Crew arrives.

Provide Information

Provide the City Field Crew with information about the overflow such as start time, appearance point, suspected cause, weather conditions, etc.

Direct ALL media and public relations requests to:

Public Works Director or designee at (650) 595-7459

Sanitary Sewer Overflows

How to avoid them and what to do if you don't

What?

A sanitary sewer overflow (SSO) is a discharge of untreated human and industrial waste before it reaches the wastewater treatment facility.

Where?

SSOs usually occur through manholes, plumbing fixtures and service cleanouts.

Why?

SSOs are usually caused by grease, debris, root balls, or personal hygiene products blocking the sewer lines, or by unusually high flow volume.

How to prevent SSOs:

...when clearing plugged sewer laterals:

- Remove root balls, grease blockages and any other debris from the sewer
- If you can't prevent root balls, grease or debris from entering the sewer main, call us at (650) 595-7425, so we can work with you to remove the blockage and prevent blockages further downstream
- Use plenty of water to flush lines.

...when constructing or repairing sewer laterals:

- Contact us for permits, lateral specifications and main lines inspections at the Permit Center at City Hall, One Twin Pines Lane, Belmont, CA 94002.
 Refer to www.belmont .gov for details and hours of operation.
- Check your work area. Make sure there is no debris left in the sewer line before you backfill.
- Avoid offset joints, which may make sewer lines vulnerable to root intrusion and grease or debris accumulation. Properly bed your joints and don't hammer tap.

If you cause or witness an SSO, immediately contact:

City of Belmont

(650) 595-7425

after hours contact Police Dispatch (650) 595-7400

City of Belmont

One Twin Pines Lane Belmont, California 94002

www.belmont.gov